

Sustain Environment

[Theme III]



"Ganga Vandanam" and "Bhoomi" Vandanam

Reverence for Mother Earth, Rivers and Nature

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Sustain Environment

Ganga Vandanam, Bhoomi Vandanam

MATA Bhoomi: PUTRO AHAMPRITHIVYA: (ATHARVA VEDA 12|1|12)

Meaning: Earth is my mother and I am her son.

Reverence for Mother Earth, Rivers and Nature

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The IMCT Philosophy in a nutshell

The Initiative for Moral and Cultural Training [IMCT] is an innovative module devised to impart, implant and ingrain cultural and moral values in young boys and girls. The essence of the IMCT programmes insists only on voluntary participation by the educational institutions, teachers, students, parents and the public.

IMCT has devised training modules [Samskarams] which are **scientifically devised**, **connected to the timeless values of our tradition**, based on emotional quotient and grounded in our civilisational assets and virtues.

IMCT offers knowledge and protection to young boys and girls who **often drift from our ancient Indian culture due to contextual compulsions and peer pressure under the pervasive effect of ill-defined modernity** that undermines traditions, family and societal values.

IMCT Samskarams rest on the ancient Indian philosophy of "Isavasyam Idam Sarvam" [everything, even the tiniest atom, is manifestation of the Divine]. This principle manifests in the six Themes or values of IMCT namely— Conserving Forests and Protecting Wildlife, Preserving Ecology, Sustaining Environment, Inculcating Human and Family Values, Fostering Women's Honour and Instilling Patriotism.

IMCT has devised Samskarams [training modules] for each Theme [value] to impart and implant the values in the minds of young boys and girls **volunteering to participate** in its programmes.

IMCT's thematic samskarams are designed to penetrate the subconscious, so not just to make impact on the students' thinking but to influence their conduct as well to inspire them.

IMCT's programmes rest on the triangle of Themes [values], Samskarams [training] and Symbols [sign] to implant reverence in them towards nature, trees and wildlife, all living beings, parents, elders, women and nation underlying the six Themes.

IMCT provides moral and cultural anchor through thematic samskarams by connecting the Symbols with the Themes in **young minds** — **so that they recall the forest when they see a tree**.

IMCT programmes are devised to **protect and preserve our heritage, family, society, nation and economy**.

IMCT trusts that **Virtues and Values build families**, **societies and nation**.

IMCT intends to prepare the young Indians to measure up to their national and global responsibilities, **as Bharat is rising as a Geo-political, economic and cultural power**.

IMCT believes, individual's personality building through thematic samskarams is directly connected to Nation Building.

IMCT's motto therefore is: "Value Building is Nation Building"

Preface

The Initiative for Moral and Cultural Training Foundation [IMCTF] has worked on how to impart values and implant them deep in the consciousness of young students in their highly impressionable years. IMCTF enables the young boys and girls to imbibe values and handle the contemporary world which is founded on west centric modernity. The corpus of knowledge built by the IMCTF aligns the basic and fundamental values of Indian Civilisation and Culture which is the timeless heritage of India to the contemporary life.

The IMCTF modules are designed with value imparting training known as "Samskarams" in ancient Indian thought. The IMCTF training models are classified into six basic Themes which connect the core of the culture of India to the contemporary challenges. The six Themes are: Conservation of Forests and Protection of Wildlife; Preserving Ecology; Sustaining Environment; Inculcating Family and Human Values; Fostering women's honour and Instilling Patriotism.

The first three Themes — namely Conserve of Forests and Protect of Wildlife, Preserve Ecology and Sustain Environment — are bound to the most challenging issue of Climate Change which is regarded as the greatest challenge ever faced by humans in history. All contemporary works on Forests, Ecology and Environment are almost agreement with the fact that all ancient thought systems and indigenous cultures had a reverential attitude to nature which the contemporary world has undermined. With the result humans who were preserving and Conserving Nature turned into their consumers and destroyers. The IMCTF Thematic Samskarams endeavour to bring Reverence back into human relation with nature. It endeavours to re-build human consciousness to Conserve Forests by recalling the ancient Reverence for Trees and even by Reverence for Wildlife like Snake, to Preserve Ecology by traditional Reverence for Animals like Cow, Elephant and plants like Tulasi, and to Sustain Environment by Universal Reverence for Rivers, Nature and Mother Earth.

The fourth Theme, Inculcate Family and Human Values, builds reverence for parents teachers and even strangers — consistent with the ancient Indian values. The fifth Theme, Foster Honour of Women recalls and builds respect for Girl Child and Womanhood in accord with the traditions and culture of diverse communities in different

parts of India. The sixth Theme, Instill Patriotism builds Reverence for Mother Land through the pre-independence spirit of worshiping Bharatamata. The contemporary respect for the Paramveer Chakra Awardee heroes belonging to all communities of India who sacrificed their life in defense of the motherland is added as an immediate emotional connect for Instilling Patriotism.

The IMCTF Themes have worked on the sociological and cultural inheritance and resources of India and by effective use of Symbols and Symbolism has designed a triangular module of Themes, Samskarams and Symbols as demonstrated here:

S. No.	Theme	Samskaram	Symbols
1	Conserve Forest & Protect Wild life	Reverence for Plants & Wild Animals	Vruksha Vandanam Naaga Vandanam
2	Preserve Ecology	Reverence for all Plant Kingdom and Animal Kingdom	Go Vandanam Gaja Vandanam Tulasi Vandanam
3	Sustain Environment	Reverence for Mother Earth, Rivers and Nature	Bhoomi Vandanam Ganga Vandanam
4	Inculcate Family & Human Values	Reverence for Parents, Teachers and Elders	Maathru-Pitru Vandanam Aacharya Vandanam Aditi Vandanam
5	Foster Women's Honour	Reverence for Girl Children and Motherhood	Kanya Vandanam Suvaasini Vandanam
6	Instill Patriotism	Reverence for Nation and National War Heroes	Bhaarat Maata Vandanam Param Veer Vandanam

The Symbols are powerful reminders of the Theme and the Samskarams connect the Theme and the Symbols and make those



who undergo the training to recall the Theme through the Symbols — like when one undergoes the Samskaram of Vruksha Vandanam will see a Forest in a Tree or like one who undergoes the Samskaram of Tulasi Vandanam will recall the entire plant kingdom. The Samskarams by effective use

of Symbols build a deep emotional connect with the Theme and influence not just the thinking of the young but also their conduct.

The scientific, historic, sociological, cultural and psychological corpus of knowledge underlying the IMCTF training modules are contained in the six thematic volumes. This volume is devoted to the value of Sustain Environment

The triangle of the Themes, Samskarams and Symbols is inherited through the age-old traditions, which this great country has preserved. The idea that the entire creation is Divine [God] is a cultural foundation of this country. Without this country the world will be bereft of this high consciousness of the whole creation as manifestation of God. That is why the motherland itself is revered as divine in our tradition. In IMCTF's view, the Nation [Desam] itself is Divine [Deivam], its value system is [Dharmam] and all the three—Desam, Deivam and Dharmam are therefore inseperably interlinked.

S.Gurumurthy Chairman, Advisory Committee

Suggestions for Efficient Conduct of Thematic Samskarams

Initiative for Moral and Cultural Training Foundation [IMCTF] has designed a set of suggestions to enable the associate schools for conducting the Thematic Samskarams uniformly and efficiently is mentioned here under.

IMCTF emphasises **voluntary participation** by students, teachers, parents, and neighborhood.

1. Suggestions for Associate Schools [schools which have agreed to be the associate of IMCTF]

The associate schools may follow the given suggestions for the proper conduct of the IMCTF programmes in their respective schools.

- i. Display the board designed by IMCTF to indicate the school's association with IMCTF at the entrance of the school.
- Display panels and thematic posters of IMCTF at prominent locations where parents, visitors, teachers and students will be able to read.
- iii. Depute an interested and involved teacher to be the IMCTF Faculty.
- iv. Form IMCTF chapter in the school headed by the IMCTF Faculty and consisting of teachers who have undergone the IMCTF training programmes.
- v. Motivate and encourage teachers and students to partake in the IMCTF programmes;
- vi. Include IMCTF thematic programmes in the school calendar to facilitate advance planning.
- vii. Invite and encourage all students, teachers and parents to volunteer to witness the performance of IMCTF programmes.
- viii. Assist in sponsoring or identifying the sponsors to meet the expenditure towards
 - a) Prizes to winners of Thematic competitions
 - b) Printing handbills, publicity materials
 - c) Performing Thematic Samskarams
 - d) Video and photography

2. Suggestions for IMCTF Chapter in School

The IMCTF Chapter in each school may endeavour to do the following

- i. The IMCTF Chapter in each associate school will plan and guide the conduct of the samskarams.
- ii. Display the IMCTF panels in different locations of the school, so that it draws students to read and understand the goal of IMCTF programmes.
- iii. Display the thematic posters in the classrooms and prominent places one month ahead of the date of the programme.
- iv. Display of banners with particulars of the date, time and venue as well the guests in prominent locations inside and outside the school area.
- v. Encourage the students to participate in the programmes voluntarily.
- vi. Choose the students who volunteer to participate carefully.
- vii. Encourage teachers, parents and neighbours to participate and/or witness the programme.
- viii. Invite and encourage the neighbouring schools and their management to participate or witness the Samskarams.
- ix. wherever possible Invite the management officials of the neighbouring schools or their principals as chief guests or guests of honour for the programme.
- x. Invite as far as possible important people in the neighbourhood, instead of a celebrity, as chief guest or guest of honour.
- xi. After identifying chief guest brief him/her about the IMCTF programmes.
- xii. Design invitation and hand bills for printing.
- xiii. Choose the appropriate and attractive words to describe the samskarams in banners and hand bills and for publicity.
- xiv. Plan and conduct competitions based on the selected Theme from the competition manual provided by IMCTF among all classes and in the neighbouring schools, if possible.

- xv. Select a proper Master of Ceremony in English and Tamil [Regional language] who can articulate well.
- xvi. Choose singers and get them well-versed in the slokams and thematic songs in the sequence listed in the Annexure-l
- xvii. Nominate follow up teams to carry out the Samskaram throughout the year;
- xviii. Select the songs, skit, drama and dances relevant to the theme and stage them by involving the volunteering younger students.
- xix. Review-team mainly constituted by IMCTF Faculties and higher-class volunteer students.
- xx. Get feedback in the form of writing and by videographing from performing students, participants, visitors and Guests after the completion of the programme.
- xxi. Get video and photos of the programmes for the school and for IMCTF
- xxii. Prepare well worded write ups for media, IMCTF and school souvenir.
- xxiii. Prepare document or PPT showing the preparations and programme which can be screened in future.

3. IMCTF programme as the bridge between the school and neighbouring residents, traders and eminent personalities

The schools and local residents, businessmen, and important people of the neighbourhood do not interact on any common programme. The schools are like islands. Therefore IMCTF programmes will be a great bridge between schools and neighbourhood. So the school will be benefited greatly if the neighbourhood is personally invited by management, teachers, students depending on who is to invite whom.

4. Suggested approach for participating students

The participating students may be encouraged to

- i. Partake on their own will voluntarily.
- ii. Study the panels and posters of the IMCTF related to the samskarams to imbibe the values imparted.
- iii. Receive consent from the parents to participate in the samskarams.

- iv. Perfom and participate in the samskarams In the appropriate attire.
- V. Invite or accompany their parents for the programme.
- Vi. Get inspired and to concentrate wholly in the programme and should realise the need and necessity to practise it.
- vii. Practise the samskaram as a part of their daily routine and observe the transformation in their conduct.
- viii. Share their experiences with others.

5. Suggested approach to media

- i. Media may be informed in advance.
- ii. Television channels may be encouraged to telecast the samskaram as attractive as possible for viewers.
- iii. A brief note of IMCTF concept, how the selected Thematic Samskarm is scientifically devised and connected with the timeless values of our tradition also may be described to media well in advance of the programme.
- iv. Encourage publications of articles in local newspapers and visual channels

6. Role of IMCTF

- i. IMCTF Will give all support at any level for the conduct of the programme.
- ii. Will provide well in advance the posters, quiz book, thematic songs, thematic competition materials in Indian national languages, Arts & Crafts, Carnatic Classical and Folk cultural, Games etc that are relevant to the theme that the school is to perform as a Thematic Samskaram.
- iii. Will coordinate with media for the programme if informed ahead of the programme
- iv. Will felicitate to inform other IMCTF associated schools about the event.

7. Suggestions for follow up

 Follow up is the crucial to implant the values in the participating students as otherwise the programme will be merely an event.

- ii. The IMCTF chapter may conduct competitions essay writing, oratorical, quiz, and other competitions on the thematic competitions.
- iii. Such competitions may also be conducted for other schools as inter school competitions.

IMCTF Classifies the Thematic Samskaram Programmes as follows

- 1. Dress Appropriate for Samskarams
- 2. First requirements
- 3. Pre-programme preparation
- 4. Arrangements at the programme
- 5. Suggestions for conducting Thematic Samskaram
- 6. Performance of the Samskaram
- 7. Post programme
- 8. Follow up

1. Dress Appropriate for the Samskarams

- i. The Participant students may be encouraged to wear traditional dresses.
- ii. However for Paramveer Vandanam, the dress code will be more appropriate to be in army, navy, air force uniform dress.
- iii. Women teachers and guests may be requested to wear sarees.
- iv. Teachers who are men may be requested to wear dhoti, kurta or formal shirt.

2. First Requirements

- The management's involvement, support and encouragements will enhance the introduction of IMCT programmes in the respective schools.
- ii. Make the teachers, parents and students aware of the vision and goal of IMCTF through handbills and banners kept in prominent locations inside and outside the school premises.
- iii. The management and parents may assist in sponsoring or identifying the sponsors to meet the expenditures on various heads of the programme.

- iv. Identifying voluntary teachers and other staffs of the school to conduct IMCT programmes in the manner suggested by IMCTF.
- v. Recruiting student volunteers who are willing to work for IMCT programmes.

3. The Pre Programme Preparation to commence before 30 days of scheduled programme.

- i. Relevant thematic posters of IMCTF relating to the samskarams to be displayed one month ahead of the programme and the school must reverberate with the atmosphere of the samskaram ahead of the programme.
- ii. Attractive Posters about the programme to be put up in classrooms and in all prominent locations inside and outside the school premises before one month.
- iii. All teachers, students and parents should be informed through school gatherings, notice board, announcements and through handbills about the programme.
- iv. Meeting neighbours with handbills or invitation, so that the programme links the schools to the neighbourhood.
- v. Arranging dignitary preferably from the same locality after briefing them about IMCTF and Thematic Samskarams will yield desirable results. Important points that need to be highlighted by the Chief Guest may also be given as a note.
- vi. Providing brief and descriptive write up about the programme and the pre-programmes like thematic competitions to media and to ensure that it is covered by them in local papers and TV Channels before and after the programme.
- vii. Conducting thematic competitions based on the Thematic Samskaram selected by the school using the materials suggested by IMCTF in various categories.
- viii. Thematic badges, bags, caps or kerchiefs printed with photos of Thematic Samskaram or Theme/ Samskaram / Symbol may be distributed to the students.

- ix. A detailed description of the Theme, Symbol and Samskaram, the course of the programme, how samskaram will be performed may be explained by master of ceremony student in English or Tamil before the commencement. This will give clarity and understanding about the programme.
- x. The process of thematic samskaram may be explained while the preparations are going on before the starting of thematic samskaram. This will engage the audience.
- xi. The students who are designated to sing during the Thematic Samskaram may practice in advance the dedicated songs and slokams given in Annexure I.
 - i. Deepa Slokam
 - ii. Isayasam Idam Sarvam
 - iii. Shanthi Mantrams
 - iv. Maithreem Bhajatha

[Tamizh thai vanakkam, National anthem or Vande Mataram can be used depending on the nature and composition of the school]

4. Materials required

- Decorated Kuthu Vilakku with five wicks and single hand vilakku for lighting the lamp, match-box, oil, wicks camphor and plate, Harthi. (Please avoid Candles) Waste clothes for dirt wiping
- ii. Lot of agal vilakku with oil and wick
- iii. Akshataha, Uthiri poo (Largh quantity) flowers may be kept in plenty for performing the Samskaram
- iv. Create pleasant smelling ambience using incense sticks etc
- v. Floral decoration for the Symbols of the samskaram to be made attractive Like Decorated Tulasi Maadam; Tree saplings, Naaga cut out or picture, Akhanda Bharat, Paramveer Awardees Photos, etc that are symbols
- vi. Persons (Kanya, Suvaasini, Aachaarya, Maatru-Pitru, others) as Symbols to be in traditional dresses.
- vii. Civil service uniforms like Naval, Military and Air-force may be used for Param Veer / Bhaarat Maata Vandanams.

- viii. Prasadam for offering to the symbol -food for Go/Gaja etc,
- ix. Sound and Mike
- x. Dias arrangements
- xi. Photo and Videography
- xii. Feedback documentation
- xiii. Follow up team

5. Performance of the Samskaram

- i. It is advisable to keep good Thematic music going on at least 30 minutes before the programme starts and 15 mts after the programme.
- ii. Deepa Prajwalan Slokam, Santhi Manthrams, Isavasyam Idam Sarvam and invocation song "Maithreem Bhajatha"etc as suggested before to be explained by the master of ceremony before the commencement of the programme.
- iii. The welcome speech itself may contain the brief about IMCTF concept, samskaram that is going to be performed, the sequence of performance, IMCTF's mission to impact as well influence the participant, visitors or guests and acknowledgment of contributions from various ends so that there is no vote of thanks at the end. The speech will explain the concept of IMCTF, Thematic Samskaram that is going to be performed and its need of the hour in the present situation. How it influences the conduct of the participants and builds values will be given by IMCTF representative students.
- iv. After welcoming the dignitaries, they may be seated comfortably off the dais to view the Samskaram. They may also be invited, if willing, to participate in the Samskaram.
- v. A small skit of thematic samskaram highlighting the relevant Theme, Samskaram or Symbol which will be self explanatory be presented before the performance of Thematic Samskaram.
- vi. Cultural programmes like dance, folk music etc., to be aligned with the respective Theme, Samskaram or Symbol.

- vii. After the performance of samskaram by the participants, floral offerings by the dignitary, head of the institution, officials of the school, visitors, parents etc. may be done to the Symbols be it Vruksha, Naaga; Go, Gaja, Tulasi; Bhoomi, Ganga; Maatru-Pitru, Aachaarya, Adithi; Kanya, Suvaasini; Bharat Maata, Paramveer Awardees whichever theme represents the Samskaram.
- viii. Administering the IMCTF Pledge by student volunteer is to be repeated by all.
- ix. Dignitary's speech specifying the effect of Thematic Samskaram and Symbolic representation of the relevant samskaram performed will be appropriate. (The host to provide with the relevant panels and posters of IMCTF well in advance to the dignitary or prepare a brief note of the speech that is to be delivered.)
- x. The programme may be concluded with Shanthi Manthram, Vande Mataram or National Anthem depending on the nature and composition of the school.
- xi. Feedback of the experiences of performing students, participants, dignitaries, visitors, and media persons to be collected in writing, audio visual recording may be done before the gathering is dispersed.

6. Post Programme:

- i. Briefing the media
- ii. Analysis of the responses
- iii. Editing of the DVD
- iv. Preparation of report with photographs for IMCTF office as well as for school magazine.

7. Follow up

Follow up is the crucial to implant the values in the participating students as otherwise the programme will be merely an event. (Refer 6. Suggestions for Follow up for further information).

Annexure - I

1. Deepa Slokam- Sanskrit (While lighting the Lamp)

Deepa jyothir Param Jyrothir, Deepa jyothir Janardhana Deepo Hara Tu Me Paapam, Deepaa Jyothir Namostute. Subham Karoti Kalyanam, Arogyam Dhana Sampadah Shatru Buddhi Vinashaya, Atma Jyotir Namosthute. Aathma jyothir Pradeepthaya, Brahma jyothir Namosthuthe Brahma jyothir Pradeepthaya, Gurur Jyothir Manosthuthe.

2. Thiru Vilakku Sostram-Tamil

Vilakke, Thiru vilakke , Vaendhan Udan Pirappae Jyothi Vilakkae Sridevi Pennmaniyae Andhi Vilakkae Alankara Kanmaniyae Kanchi Vilakkae Kamakshi Deviyare

Pasumpon Vilaku Vaithu Panchu Thiri Pottu Kulam Pol Neyyai Vittu Kolamudan Yaettri Vaithaen Pottu Mittaen Kunkumatthal Poomalai Sooti Vaithaen Yaettrinaen Nei Vilakku Enthan Kudi Vilanga

Vaithaen Thiruvilakkai Maaligaiyil Thaan Vilanga Maaligaiyil Jothi Ulla Mathavai Kandu Kondaen Mangalya Pichchai Madi Pichchai Thaarum Amma Santhana Pichchaiyudan Dhanangalayum Thaarum Amma

Petti Niraya Bhushanangal Thaarum Amma Kottagai Niraya Pasu Maadu Thaarum Amma Pughazhudambai Thandu Endhan Pakkathil Nillum Amma Agathazhivai Thandhu Enthan Agathinilae Vazhum Amma

Saevi Thozhuthunindraen Devi Vadiyam Kandaen

Vajra Kiridam Kandaen Vaidoorya Maeni Kandaen Muthu Kondai Kandaen Muzhu Pachchai Malai Kandaen Saviri Mudi Kandaen Thazaimadal Chuzha Kandaen

Pinnal Azhagu Kandaen Pirai Pola Netri Kandaen Chanthudan Netri Kandaen Thaayaar Vadivam Kandaen Kurukidum Netri Kandaen Kovai Kani Vayum Kandaen Senthamarai Poomadal Pol Sevi Irandum Kandu Kondaen

Senbhaga Poopol Thirumookkum Kandu Kondaen Maarbil Pathakkam Minna Malai Asaya Kandaen Kaalil Silambhu Konja Kalazhi Peezhi Kandaen Pattadai Than Udutha Padai Irandum Kandu Kondaen

Mangala Nayagiyae Unnai Manam Kulira Kandu Kondaen Anbae Arun Thunayae Unnai Adaintha Endhanukku Vandha Vinai Agartri Maha Bhagyam Thantharulvai Thanthai Thai Piravi Neeyae Tharkakkum Rakkshagi Neeyae

Andharthirku Udavi Seyyum Atharamaanaval Neeyae Undhanayae Uravaga Nambi Uttraarai Kai Vittaen Thayae Santhaanam Sowbhagyam Alitthu Sakthikalum Saevaigalum Enakkarulvai Bakthi Ulla Manitharukkae Para Devi Krupayudan Arulvai

3. Santhi Mantram

Asato mā sadgamaya, tamasomā jyotir gamaya Mrityormāamritam gamaya, Om śhānti śhānti śhāntih

4. Isayasam Idam Sarvam

Om Isavasyamidam sarvam, yatkiñca jagatyam jagat tena tyaktena bhuñjitha ma, grdhah kasyasvid dhanam

5. Tamil Thai Vazhthu

Neeraarum kadaluduththa nilamadandhai kezhilolugum...

Seeraarum vadhanamena thihazh baradha kandamidhil...

Thekkanamum adhil chirandha Dravida nal thiru naadum...

Thakkasiru pirai nudhalum thari thanarum thilagamume...

Aththilaga vaasanai pol anaithulagum inbamura...

Yeththisayum puhazh manakka irundha perum Thamizhanange!!!

Thamizhanange!!!

Vun seerilamai thiram viyandhu seyal marandhu Vazhthudhume!!!

Vazhthudhume!!!

Vazhthudhume!!!

6. Maithreem Bhajatha

Composed by Kanchi Maha Swamigal for the Universal Unity and Peace. Sung by

Smt. M.S. Subhalakshmi in the United Nations Organisation in 1962.

Maithreem Bhajatha, Akhila Hrujjethreem,

Atmavadeva paraanapi pashyatha

Yuddham thyajatha, Spardhaam Tyajata,

thyajatha Pareshu akramamaakramanam

Jananee Pruthivee Kaamadughaastey

JanakO Devah Sakala Dayaaluh

Daamyata Datta Dayadhvam Janathaah

Sreyo Bhooyaath Sakala Janaanaam

Sreyo Bhooyaath Sakala Janaanaam

Sreyo Bhooyaath Sakala Janaanaam

7. Santhi Manthram

- Aum Poornam adah Poornam idam Poorna aat Poornam udachyate Poorna asya poornam aadaaya Poornam evaa vashishyate Aum śāntiḥ, śāntiḥ
- Aum Sarveshaam svastir bhavatu
 Sarvesham shantir bhavatu
 Sarvesham purnam bhavatu
 Sarvesham mangalam bhavatu
- 3. Aum Sarve bhavantu sukhinah sarve santhu niramayah Sarve bhadrani pasyantu maa kashchit duhkha vagh bhavet Aum śāntiḥ, śāntiḥ, śāntiḥ
- 4. Aum dyauḥ śāntirantarikṣaṁ śāntiḥ pṛthivī śāntirāpaḥ śāntiroṣadhayaḥ śāntiḥ vanaspatayaḥ śāntirviśvedevāḥ śāntirbrahma śāntiḥ sarvaṁ śāntiḥ śāntireva śāntiḥ sā mā śāntiredhi Aum śāntiḥ, śāntiḥ, śāntiḥ

- Yajurveda 36:17

8. Vande Maataram

Vande Maataram.. vande maataram.. vande maataram.. maataram..

sujalaam sufalaam malayaja sheetalaam sasyashyaamalaam maataram

Vande Maataram

shubhrajyotsna pulakita yaaminiim phulla kusumita drumadala shobhiniim suhaasinim sumadhura bhaashhinim sukhadaam varadaam maataram..

Vande Maataram

sapta koti kantha kalakala ninaada karaale nisapta koti bhujaidhruta khala karvaale ka bola ka noma eith bole bahubal dhaariniin namaami taariniim ripudalavaariniin maataram

Vande Maataram

tumi vidyaa tumi dharma, tumi hridi tumi marma tvan hi praanaah shariire baahute tumi maa shakti, hridaye tumi maa bhakti, tomaarai pratimaa gadi mandire mandire

Vande Maataram

tumi durgaa dashapraharanadhaarinii kamalaa kamaladala vihaarinii vaanii vidyaadaayinii, namaami tvaam namaami kamalaan amalaan atulaam sujalaan sufalaan maataram

Vande Maataram

shyaamalaan saralaan susmitaan bhuushhitaam dharaniin bharaniin maataram

Vande Maataram

- Bankim Chandra Chattopadhyay

9. National Anthem

Jana Gana Mana Adhinaayak Jaya Hey,
Bhaarat Bhaagya Vidhaataa
Panjaab Sindhu Gujarat Maraatha,
Draavid Utkal Banga
Vindhya Himaachal Yamuna Ganga,
Uchchhal Jaladhi Taranga
Tav Shubh Naamey Jaagey,
Tav Shubh Aashish Maange
Gaahey Tav Jayagaathaa
Jana Gana Mangal Daayak,
Jaya Hey Bhaarat Bhaagya Vidhaataa
Jaya Hey, Jaya Hey,
Jaya Jaya Jaya, Jaya Hey

- Rabindranath Tagore

1. The Earth and Water as the Centre of Natural Environment

The natural environment encompasses all living and non-living things occurring naturally on Earth or some region thereof. It is an environment that encompasses the interaction of all living species.

The concept of the natural environment can be distinguished by components:

Complete ecological units that function as natural systems without massive human intervention, including all vegetation, microorganisms, soil, rocks, atmosphere, and natural phenomena that occur within their boundaries.



Universal natural resources and physical phenomena that lack clear-cut boundaries, such as air, water, and climate, as well as energy, radiation, electric charge, and magnetism, not originating from human activity.

The natural environment is

contrasted with the built environment, which comprises the areas and components that are strongly influenced by humans. A geographical area is regarded as a natural environment.

It is difficult to find absolutely natural environments, and it is common that the naturalness varies in a continuum, from ideally 100% natural in one extreme to 0% natural in the other. More precisely, we can consider the different aspects or components of an environment, and see that their degree of naturalness is not uniform. If, for instance, we take an agricultural field, and consider the mineralogical composition and the structure of its soil, we will find that whereas the first is quite similar to that of an undisturbed forest soil, the structure is quite different

Natural environment is often used as a synonym for habitat. For instance, when we say that, the natural environment of giraffe is the savanna.

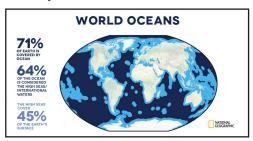
https://en.wikipedia.org/wiki/Savanna

The Earth and Water as the centre of Natural Environment.

It is the earth and water such as oceans, rivers, streams, lakes, ponds that constitute the core of natural environment. The combination of the two impact upon and influence the atmosphere, forest and ecology.

2. Composition of Environment

Atmosphere, climate, weather



The atmosphere of the Earth serves as a key factor in sustaining the planetary ecosystem. The thin layer of gasesthat envelops the Earth is held in place by the planet's gravity. Dry air consists of

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78% nitrogen, 21% oxygen, 1% argonand other inert gases, such as carbon dioxide. The remaining gases are often referred to as trace gases,among which are the greenhouse gasessuch as water vapour, carbon dioxide, methane, nitrous oxide, and ozone. Filtered air includes trace amounts of many other chemical compounds. Air also contains a variable amount of water vaporand suspensions of water droplets and icecrystals seen as clouds. Many natural substances may be present in tiny amounts in an unfiltered air sample, including dust, pollenand spores, sea spray, volcanic ash, and meteoroids. Various industrial pollutants also may be present, such as chlorine(elementary or in compounds), fluorine compounds, elemental mercury, and sulphurcompounds such as sulphur dioxide [SO₃]. The ozone layer of the Earth's atmosphere plays an important role in depleting the amount of ultraviolet (UV) radiation that reaches the surface. As DNAis readily damaged by UV light, this serves to protect life at the surface. The atmosphere also retains heat during the night, thereby reducing the daily temperature extremes.

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3. Environmental Issues-I

Here is the list of various environmental issues. As such they relate to the anthropogenic effects on the natural environment.



- Climate change Global warming Global dimming Fossil fuels • Sea level rise • Greenhouse gas • Ocean acidification • Shutdown of thermohaline circulation • Environmental impact of the coal industry • Urban Heat Islands
- Conservation Species extinction Pollinator decline Coral bleaching • Holocene extinction • Invasive species •Poaching• Endangered species
- Energy Energy conservation Renewable energy•Efficient energy use • Renewable energy commercialization•Environmental impact of the coal industry• Environmental impact of hydraulic fracturing
- 4. **Environment degradation** Eutrophication Habitat destruction Invasive species Soda lake
- 5. **Environmental health** Air quality• Asthma Environmental impact on the coal industry Electromagnetic fields Electromagnetic radiation and health Indoor air quality Lead poisoning Sick Building Syndrome Environmental impact of hydraulic fracturing
- 6. **Genetic engineering** Genetic pollution•Genetically modified food controversies
- Intensive farming Overgrazing Irrigation Monoculture
 Environmental effects of meat production Slash and burn
 Pesticide drift •Plasticulture

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- 8. **Land degradation** Land pollution Desertification
- 9. **Soil** Soil conservation Soil erosion Soil contamination Soil salination• Alkali soils Residual Sodium Carbonate Index
- 10. **Land use** Urban sprawl. Habitat fragmentation Habitat destruction
- 11. Nanotechnology Nano toxicology Nano pollution
- Nuclear issues Nuclear fallout Nuclear meltdown• Nuclear power • Nuclear weapons• Nuclear and radiation accidents • Nuclear safety • High-level radioactive waste management
- 13. **Overpopulation** Burial Water crisis Overpopulation in companion animals Tragedy of the commons Gender Imbalance in Developing Countries Sub-replacement fertility levels in developed countries
- 14. Ozone depletion CFC Biological effects of UV exposure
- 15. **Pollution** Environmental impact of the coal industry Nonpoint source pollution Point source pollution Light pollution Noise pollution Visual pollution Interplanetary contamination

4. Environmental Issues-II

- 16. Water pollution Environmental impact of the coal industry Acid rain Eutrophication Marine pollution ocean dumping Oil spills Thermal pollution Urban runoff Water crisis Marine debris Micro-plastics Ocean acidification Ship pollution Wastewater Fish kill Algal bloom Mercury in fish
- 17. **Air pollution** Environment impact of hydraulic frustrating Environmental impact of the coal industry Smog Tropospheric ozone Atmospheric particulate matter Environmental impact of hydraulic fracturing
- 18. Reservoirs Environment impacts of reservoirs
- 19. **Resource depletion** Exploitation of natural resources Over drafting
- Consumerism Consumer capitalism Planned obsolescence Over consumption
- 21. **Fishing** Blast fishing Bottom trawling Cyanide fishing Ghost nets Illegal, unreported and unregulated fishing Overfishing Shark finning Whaling

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- 22. **Logging** Clear cutting Deforestation Deforestation Illegal logging
- 23. **Mining** Acid mine drainage Environmental impact of hydraulic fracturing Mountaintop removal mining Slurry impoundments
- 24. **Water (depletion)** Aral Sea Dead Sea Lake Chad•Other Wikipedia articles on water problems are Water pollution, Water crisis / scarcity, Wastewater, Anoxic water
- 25. **Toxins** Chloroflurocarbons (CFCs) DDT• Endocrine disruptors Dioxin Toxic heavy metals •Environemtal impact of the coal industry• Herbicides Pesticides Toxic waste PCB Bioaccumulation Bio- magnification Environmental impact of hydraulic fracturing
- 26. **Waste** Electronic waste Litter •Waste disposal incidents Marine debris Medical waste Landfill Leachate Environmental impact of the coal industry Incineration Great Pacific Garbage Patch Exporting of hazardous waste Environmental impact of hydraulic fracturing.

5. Types of Environmental Pollution

Environmental pollution is the biggest menace to the human race on this planet today. It means adding impurity to environment. The environment consists of earth, water, air, plants and animals. If we pollute them, then the existence of man and nature will be hampered.

- Soil Pollution: It is true that trees are being cut down rapidly.
 Our earth is becoming warmer. If pollution continues, the day is
 not far when our earth will become boilingpan desert. Or it will
 be covered with seawater causing destruction of mankind.
- 2. **Air Pollution**: Pure air is always needed for inhaling. If we take pure air, our health improves. On the other hand impure air causes

diseases and impairs our health and causes our death. Smoke pollutes the air. It is the root of air pollution. The smoke which is discharged from industries, automobiles and kitchens is the mixture of carbon monoxide, carbon dioxide, methane etc.



These are all poisonous gases. These cause lung-cancer, tuberculosis etc. which takes a heavy toll of life. The glaring incident is the Bhopal gas leak in December 1984. Thousands of the residents of Bhopal died due to lungs problem which was caused by methylamine gas from the Union Carbide Plant.

The garbage emitting foul smell, the decaying plants and animals also cause air pollution. Hence the doctors advise the patients having lungs trouble to settle in some rural places because the air of villages is pure and free from pollution.

3. Noise Pollution: The harsh sounds of traffic system, motor vehicles, aircraft, trains and machines affect our hearing power and causes heart troubles. It has been reported that there are two villages named Biraspalli and DevadasPalli near Dum Dum airport in Calcutta where a large number of people have lost their power of hearing. This is because of the frequent sounds of



planes coming in and going out of Dum Dum Airport. The evils of noise pollution can be imagined from this example.

4. Water Pollution: - The water of rivers and seas is being constantly pollute all over the world by various dangerous chemical and biological wastes. Mills and factories discharge very harmful wastewaters into many rivers and sea. The water of the Ganges flowing by the side of



both Varanashi and Calcutta is extremely polluted and contains all sorts of dangerous bacteria.

Reckless application of chemical fertilizers, insecticides and pesticides pollutes the soil. Vegetables and fruits are quite injurious today, because they contain the poison of insecticides and pesticides.

If the air we breathe, the water we drink and the soil, which produces our crops, vegetables and fruits all become more and more impure, then our chances of good health and longevity will rapidly decrease.

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Environment pollution is a serious menace to our existence. Realising the danger, we must plant trees in large number to absorb impure air. Impure water from industries can be sent back for purification and then it can be used for irrigation purpose. Our government is well aware of the fact and is taking steps to save environment from pollution. We have also aministryto look after the environmental issues.

6. Main causes of Soil Pollution



Soil pollution is defined as the build-up in soils of persistent toxic compounds, chemicals, salts, radioactive materials, or disease causing agents, which have adverse effects on plant growth and animal health.

Soil pollution is one of the major problems taking place today. Our earth is increasingly

getting contaminated and polluted and there is no one else to blame, but ourselves.

The pollution of soil is the result of the presence of contaminants, including toxic compounds, radioactive materials and other foreign and harmful chemicals, in the soil. As a result, the soil loses its structure and chemical (content of oxygen, nitrogen, etc) and biological (e.g. ability to support life) properties.

Some of the common soil pollutants are hydrocarbons, heavy metals (e.g. cadmium, lead, chromium, copper, zinc, mercury and arsenic), herbicides, pesticides, oils, tars, Polychlorinated Biphenyl (PCB) and dioxins.

Main causes of Soil Pollution

 Soil pollution is often associated with indiscriminate use of farming chemicals, such as pesticides, fertilizers, etc. Pesticides applied to plants can also leak into the ground, leaving longlasting effects. Read about the dangers of pesticides. In turn, some of the harmful chemicals found in the fertilizers (e.g. cadmium) may accumulate above their toxic levels, ironically leading to the poisoning of crops.

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- 2. Heavy metals can enter the soil through the use of polluted water while watering crops, or through the use of mineral fertilizers.
- 3. Faulty landfills, bursting of underground bins and seepage from faulty sewage systems could cause the leakage of toxins into the surrounding soil.
- 4. Acid rains caused by industrial fumes mixing in rain falls on the land, and could dissolve away some of the important nutrients found in soil, as such change the structure of the soil.
- 5. Industrial wastes are one of the biggest soil-pollution factors. Iron, steel, power and chemical manufacturing plants which irresponsibly use the earth as a dumping ground often leave behind lasting effects for years to come.
- 6. Fuel leakages from automobiles, which get washed by rain, can seep into the nearby soil, polluting it.
- 7. Deforestation is a major cause for soil erosion, where soil particles are dislodged and carried away by water or wind. As a result, the soil loses its structure as well as important nutrients.

7. Effects of Soil Pollution

The effects of pollution on soil are quite disturbing and can result in huge disturbances in the ecological balance and health of living beings on earth. Some of the most serious soil pollution effects are:

- 1. **Disturbance** in the balance of flora and fauna inhabiting in the soil.
- 2. Contaminated soil decreases soil fertility and hence there is **decrease in the soil yield.**
- Normally crops cannot grow and flourish in a polluted soil.
 However if some crops manage to grow, then these crops might have absorbed the toxic chemicals in the soil and might cause serious health problems in people consuming them.



- 4. Sometimes the soil pollution is in the form of increased salinity of the soil. In such a case, the soil becomes **unhealthy for vegetation**, and often becomes useless and barren.
- 5. When soil pollution modifies the soil structure, deaths of many beneficial soil organisms (e.g. earthworms) in the soil could take place. Other than further reducing the ability of the soil to support life, this occurrence could also have an effect on the larger predators (e.g. birds) and force them to move to other places, in the search of food.
- 6. People living near polluted land tend to have higher incidences of migraines, nausea, fatigue, skin disorders and even miscarriages. Depending on the pollutants present in the soil, some of the longer-term effects of soil pollution include cancer, leukemia, reproductive disorders, kidney and liver damage, and central nervous system failure. These health problems could be a result of direct poisoning by the polluted land (e.g. children playing on land filled with toxic waste) or indirect poisoning (e.g. eating crops grown on polluted land, drinking water polluted by the leaching of chemicals from the polluted land to the water supply, etc).

http://www.all-recycling-facts.com/soil-pollution.html#ixzz2nqfQhxO3

8. Air Pollution



Air pollution is the introduction into the atmosphere of chemicals, particulates, or biological materials that cause discomfort, disease, or death to humans, damage other living organisms such as food crops, or damage the natural environment or built environment.

The atmosphere is a complex dynamic natural gaseous system that is essential to support life on planet Earth. Stratospheric ozone depletion due to air pollution has long been recognized as a threat to human health as well as to the Earth's ecosystems.

Indoor air pollution (see Airlog) and urban air quality are listed as two of the World's Worst Toxic Pollution Problems in the 2008 Blacksmith Institute World's Worst Polluted Places report.

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A substance in the air that can be adverse to humans and the environment is known as an air pollutant. Pollutants can be in the form of solid particles, liquid droplets, or gases. In addition, they may be natural or man-made. Pollutants can be classified as primary or secondary. Primary pollutants are directly produced from a process, such as ash from a volcanic eruption, the carbon monoxide gas from a motor vehicle exhaust or sulfur dioxide released from factories. Some pollutants may be both primary and secondary: that is, they are both emitted directly and formed from other primary pollutants. Secondary pollutants are not emitted directly. Rather, they form in the air when primary pollutants react or interact. An important example of a secondary pollutant is ground level ozone — one of the many secondary pollutants that make up photochemical smog.

9. Health effects of Air Pollution-I



Air pollution is a significant risk factor for multiple health conditions including respiratory infections, heart disease, and lung cancer, according to the WHO. The health effects caused by air pollution may include difficulty in breathing, wheezing, coughing, asthma and aggravation of existing respiratory and cardiac conditions. These effects can result in increased medication use,

increased doctor or emergency room visits, more hospital admissions and premature death. The human health effects of poor air quality are far reaching, but principally affect the body's respiratory system and the cardiovascular system. Individual reactions to air pollutants depend on the type of pollutant a person is exposed to, the degree of exposure, the individual's health status and genetics.

The most common sources of air pollution include particulate matter, Carbon monoxide, Ozone, Nitrogen dioxide and Sulfur dioxide. Both indoor and outdoor air pollution have caused approximately 3.3 million deaths worldwide. Children aged less than five years that live in developing countries are the most vulnerable population in terms of total deaths attributable to indoor and outdoor air pollution.

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The World Health Organization states that 2.4 million people die each year from causes directly attributable to air pollution, with 1.5 million of these deaths attributable to indoor air pollution. "Epidemiological studies suggest that more than 500,000 Americans die each year from cardiopulmonary disease linked to breathing fine particle air pollution".

A study by the University of Birmingham has shown a strong correlation between pneumonia related deaths and air pollution from motor vehicles. Worldwide more deaths per year are linked to air pollution than to automobile accidents. A 2005 study by the European Commission calculated that air pollution reduces life expectancy by an average of almost nine months across the European Union. Causes of deaths include aggravated asthma, emphysema, lung and heart diseases, and respiratory allergies.

The US EPA estimates that a proposed set of changes in diesel engine technology (*Tier 2*) could result in 12,000 fewer *premature mortalities*, 15,000 fewer heart attacks, 6,000 fewer emergency room visits by children with asthma, and 8,900 fewer respiratory-related hospital admissions each year in the United States.

10. Health effects of Air Pollution-II



The US EPA estimates allowing a ground-level ozone concentration of 65 parts per billion, would avert 1,700 to 5,100 premature deaths nationwide in 2020 compared with the current 75-ppb standard. The agency projects

the stricter standard would also prevent an additional **26,000 cases** of aggravated asthma and more than a million cases of missed work or school.

The worst short-term civilian pollution crisis in India was the 1984 Bhopal Disaster. Leaked industrial vapours from the Union Carbide factory, belonging to Union Carbide, Inc., U.S.A., killed more than 25,000 people outright and injured anywhere from 150,000 to 600,000.

*5*4

The **United Kingdom** suffered its worst air pollution event when the **December 4 Great Smog of 1952 formed over London**. In six days more than **4,000 died, and 8,000 more died** within the following months.

An accidental leak of anthrax spores from a **biological warfare** laboratory in the former USSR in 1979 near Sverdlovsk is believed to have been the cause of hundreds of civilian deaths. The worst single incident of air pollution to occur in the US occurred in Donora, Pennsylvania in late October, 1948, when 20 people died and over 7,000 were injured.

A new economic study of the health impacts and associated costs of air pollution in the Los Angeles Basin and San Joaquin Valley of Southern California shows that more than 3800 people die prematurely (approximately 14 years earlier than normal) each year because air pollution levels violate federal standards. The number of annual premature deaths is considerably higher than the fatalities related to auto collisions in the same area, which average fewer than 2,000 per year.

Diesel exhaust (DE) is a major contributor to combustion derived particulate matter air pollution. In several human experimental studies, using a well-validated exposure chamber setup, **DE** has been linked to acute vascular dysfunction and increased thrombus formation. This serves as aplausible mechanistic link between the previously described association between particulates air pollution and increased cardiovascular morbidity and mortality.

11. Loss of environmental traditions – main cause of environmental decay

While all ancient people had realised the mutually related and dependent relation between nature and humans, the contemporary [modern] civilisation, which had long ignored the traditional wisdom in its pursuit of economic development, came to realise the risk of the serious loss of the mutually enriching relation between nature and humans a bit late.

Enlightenment beliefs rooted themselves in reason and logic. The leaders of enlightenment believed that the knowledge must be widely known and must be pondered. However, nature was analogous to God and could not be examined.

The believers and leaders of enlightenment had to separate nature from God. This led to the feminization of nature, the creation of the word — "Mother Nature".



Boyle suggested that examination of man is an examination of God. Therefore, nature had to be converted to woman, "a great... pregnant automation" to be examined.

Bacon suggests that a man must be inquisitive to find truth through

penetrating into these holes and corners, a sexual metaphor that feminizes nature.

Carolyn Merchant suggests that it made possible for people to exploit and study it, when nature was feminized and degraded. Hence the word Mother Nature comes into play.

These scientists utilized sexual metaphors to create a feminized nature - Mother Nature - so that it could be studied and exploited.

In late 1970, almost two hundred years after industrialism and modern economics redefined human relation with nature which lead to the determent of the latter, the world woke up to the issue. In 1972 the United Nations Conference on Human Environment [known as the Stockholm Conference] took place which proposed the concept of Sustainable development. Out of the conference was born the United Nations Environmental Programme [UNEP] to develop and recommend environmentally sound economic development programmes.

In 1983 General Assembly realized that there was heavy deterioration of the human environment and natural resources and appointed the World Commission on Environment and Development WCED or what was known as the Bruntland commission. The commission thus defined sustainable development as "development that meets the

needs of the present without compromising the ability of future generations to meet their own needs".

"This commission believes that people can build a future that is more prosperous, more just, and more secure. Our report is not a prediction of ever increasing environmental decay, poverty and hardship in ever more decreasing resources. We see instead the possibility for a new era of economic growth, one that must be based on policies that sustain and expand the environmental resource base...We have the power to reconcile human affairs with the natural laws and to thrive in the process."

12. Indian traditional communities and their environmental consciousness

In India we have several success stories of communities and traditional faiths and culture protecting environment.

Here is a great illustration of what environmental consciousness can do to motivate people to lay down their lives to prevent trees being cut.



The Bishnois is a small community in the state of Rajasthan who practiced environmental conservation as a part of their daily religious duty. The community is an off-shoot of Hinduism and was founded by Guru Maharaj Jambeshwar in the 15th century. He believed that if trees were protected, animal life would be sustained and his community would survive.

Therefore, he formulated twenty-nine injunctions. Principle among them was the ban on cutting of any green tree and killing of any animal or bird.

13. Research on Traditional Environmental Knowledge - Development and Its Role

For thousands of years, aboriginal people around the world have used knowledge of their local environment to sustain themselves and to maintain their cultural identity. Only in the past decade, this knowledge has been recognized by the Western scientific community as a valuable source of ecological information. Today, a growing body of literature attests not only the presence of a vast reservoir of information regarding plant and animal behaviour but also to the existence of effective indigenous strategies for ensuring the sustainable use of local natural resources.



This knowledge is variously labeled as folk ecology, ethnoecology, traditional environmental or ecological knowledge, indigenous knowledge, customary law, and knowledge of the land. Traditional environmental or ecological knowledge is probably the most common term. However, there remains no universally accepted definition of the concept. As a field of study, traditional environmental knowledge is much more comprehensive than either conventional anthropology or ecology.

Berkes (1992) points out that the use of the term "traditional" is ambiguous and raises questions regarding the cultural dynamics of such knowledge systems.

In the dictionary sense, "traditional" usually refers to cultural continuity transmitted in the form of social attitudes, beliefs, principles and conventions of behaviour and practice derived from historical experience. However, societies change through time, constantly adopting new practices and technologies, making it difficult to define just how much and what kind of change would affect the labeling of a practice as "traditional."

For this reason, some scholars prefer the term "Indigenous ecological knowledge." This helps avoid the debate about tradition and explicitly emphasizes indigenous people. However, similar knowledge is found among nonindigenous groups such as outport fishermen and farmers. These groups have also acquired their knowledge and skills through hands-on experience living in close contact with their environment.

Traditional Environmental Knowledge [TEK], can generally be defined as a body of knowledge built up by a group of people through generations of living in close contact with nature. The quantity and quality of traditional environmental knowledge varies among community members, depending upon gender, age, social status, intellectual capability, and profession (hunter, spiritual leader, healer, etc.). With its roots firmly in the past, traditional environmental knowledge is both cumulative and dynamic, building upon the experience of earlier generations and adapting to the new technological and socioeconomic changes of the present Martha Johnson, Dene Cultural Institute, Yellowknife, NWT, Canada.

14. The relevance of Ancient Indian tradition for environmental sustainability

The Environment (Protection) Act, 1986 defines the environment as follows: 'Environment includes water air and land and the interrelationship which exists among and between water, air and land and human beings, other living creatures, plants, micro-organisms and property.

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This definition is captured in ancient Indian texts. It is known from the Vedic times that the nature and human being (Prakriti and Purusha) form an inseparable part of life support system. This is what that reflects the concept of the present day environment. 'Wise utilize three elements variously, which are varied, visibleand full of qualities.

These are water, air and plants or herbs. They exist in the world from the very beginning. They are called as Chandansi meaning 'coverings available everywhere.' It proves the knowledge of Vedic seers about the basic elements of environment.

According to one indigenous theory established in the Upanishads, the universe consists of five basic elements they are

- 1. Earth or land
- 2. Water
- 3. Light or fire
- 4. Air and
- 5. Ether (Aitareya *Upanishad 3.3*)

The balance and mutual relationship between the PanchaBhoota concept as expounded in the Indian philosophy and the present day environmental



issues has been brought out in a research paper titled "Indian Ethos in sustainability from Ancient to Gandhi: Sustainability Education at IBMT by Prof MD Saibaba, Institute of Business management and Technology, Bangalore presented at the ESCIP International Business School France, International Days 2010. The author says:

Environmental sustainability or the code for universal existence has always been there in the Indian Philosophy through the ages.It has been an integral part of IndianPhilosophy. RIGVEDA and ATHARVAVEDA (5000BC) have been the earliest known documented ancient texts of Indian Origin.

The importance of Environmental sustainability has been propounded as the amalgamation or the proper equilibrium of five PanchaBoothas as we call it. The five elements of the Physical Universe are: Earth, Water, Fire, Air and Ether (Aakash).

The texts say that all that exists consists of these elements. Hence, we in India consider them to be reflections of Divinity. All these elements have been worshipped and revered since ancient times.

In the Atharva Veda there is prayer, which draws attention to the ecological balance of these elements and how the earth is the upholder of the moral order. We beseech the earth to protect us and to purify us. We pray to her to give us the mountains as well as the flowing rivers. We ask her to bear herbs of manifold potency, on whom food and crops grow and animals roam. We seek the blessings of the Ether to bless us by fertilizing the earth by proper rainfall at times. We also pray that let the earth be kind to us and we too it.

15. Traditional culture and ecological knowledge in sustaining natural resource management

Demazong (the Buddhist eco-cultural landscape in Sikkim Himalayas) and Apatani eco-cultural landscape in Arunachal Pradesh illustrate the value of traditional culture and ecological knowledge in sustaining natural resource management.



Natural resource conservation at the village of Mendha in Gadhchiroli district of Maharashtra

In 1987, the villagers renewed their efforts at biodiversity conservation. They decided: no commercial exploitation of the

forests, except for Non-Timber Forest Produce; the villagers would themselves regulate the amount of resources they could extract from the forests and undertake measures to tackle soil erosion; forests would not be set on fire; encroachment would not be allowed; the villagers decide for themselves.

In the North-Eastern region of India, tribal communities meet a substantial proportion of their resource requirements from a relatively small catchment area in which they have been living for a long time. They live in complete harmony with nature.

The Meetei communities in the States of Manipur and Assam



Sacred groves, or UmangLais, as they are called in the Meetei language, form an integral part of the Manipuri tradition of nature worship. Several species of plants are protected in these groves, which also offer protection to birds and animals.

These include teak, several fruit trees like lemon, plants of medicinal value such as ginger, eucalyptus and bamboo. Fishes, waterfowl and other aquatic animals like snails and insects are very common items in the diet of the Meetei. However, many of these animals are not eaten during certain periods, probably with the motive of sustainable harvesting and conservation. Thus, in this case certain religious beliefs and practices help in the conservation of nature and its biodiversity.

16. Eastern Philosophies on Environment friendliness and compatibility

Eastern philosophies of Hinduism, Buddhism, Jainism, Sikhism, Taoism and Shintoism are environment-compatible and environment-friendly and build Environmental consciousness. Isavasya Upanishad [Hindu] Kalachakra Tantra [Buddhist] Achara Sutra [Jain] Guru Granth Sahib [Sikh] Taishanghuadaodushixianjing, [Taoist] and Shinto beliefs all believe that nature and human both originate in divinity.

Environmental consciousness is not an intellectual idea. It is abiding reverence for nature. It is a spiritual value. Not a religious concept. It is a core value of Eastern philosophies even though the all ancient cultures all over the world have similar orientation. In Eastern philosophies, consisting of the Hindu, Buddhist, Jain, Sikh, Tao and Shinto traditions, humans and environment are considered interrelated. They all see divinity immanent in every tiny atom of the universe and humans. They perceive the five elements of nature — earth, water, air, fire and space — as emanating from the same source as humans. They consider nature and humans as inter-related and not independent of one another.

- > Isavasya Upanishad, one of the most sacred ancient Hindu scriptures of ancient, as translated by Mahatma Gandhi says, "In the creation, the Divine is immanent in earth, water, air, fire and space and in every tiniest atom of this universe."
- > Kalachakra Tantra, sacred Buddhist scripture, says "Earth, Water, Air, Fire and Human beings -- all emerged only out of the vacuum of space"
- > Achara Sutra, the Jain sacred text, says, "The five elements of earth, water, air, fire and space are not lifeless matter; they have soul"
- Guru Granth Sahib, the Sikh sacred text, says: "The five elements of earth, water, air, fire and space and all living beings are, O God, only thee
- > Taishanghuadaodushixianjing, a Taoist scripture, says Tao is the Mother of Heaven and Earth and of Yin-Yang, and the origin of the Five Agents and of the myriad beings. Man and all other beings are born from the same primordial Breath (Qi) so that all beings emanate from Tao and obtain their essence from Tao
- > **Shinto** belief regards the land, its nature, and all creatures including the human as children of Kami [the Divine]. Therefore there exist Kami of Rain, Kami of Wind, Kami of Mountain, Kami of Ocean, Kami of River, Kami of Thunder.

The entire spectrum of Eastern philosophies converges on the view that the entire creation is manifestation of the divine. They clearly distinguish themselves from the Western philosophies, which set apart humanity from nature conceptually.

Consequently the Eastern philosophies are eco-centric where humans and nature are inter-related and share common origin and share the common biological space and not anthropocentric which considers humans as the crowning glory of biological hierarchy.

17. "Western Faiths destroyed nature which traditional faiths had protected and preserved"-says science

More recently, 'Eco-science' [1977] a research book co-authored by John P Holdren, Adviser on scientific issues to US President Barack Obama [along with Paul Ehrlich, Anne Ehrlich] the author's state:

Lynn White Jr., professor emeritus of history at the University of California, Los Angeles, and past president of the American Historical Association, has suggested that the basic cause of Western society's destructive attitude toward nature lies in the Judeo-Christian tradition. He pointed out, for instance, that people believed trees, springs, hills, streams, and other objects of nature had guardian spirits. Those spirits had to be approached and placated before one could safely invade those territories: 'By destroying pagan animism..., made it possible to exploit nature in a mood of indifference to the feelings of natural objects." [P. 809]



In fact, Pagans were regarded as inferior and pagan beliefs were regarded Satanic, but it is that which preserved nature. Belief in worship of trees, rivers, and other aspects of nature which Lynn White says protected nature in the traditional societies was decried and destroyed

by the Western religious and rationalist establishments in the last few centuries. The result was the huge destruction of nature. The reverence for nature was the samskaram which developed love, respect and care for nature in people.

18. Christian Priest Deals The Ancient Hindu Literature "Atharva Veda"

Rev. Father Shaji George Kochuthara, a Christian Priest exhaustively deals with how the ancient Hindu literature Atharva Veda revered mother earth.

Father Kochuthara writes: Particularly of interest is the Hindu concept of the earth—"The earth is the foundation, the basis out of which emerges all that exists and on which everything rests. The earth is the basis of life and, when considered as divine being, she always occupies a special place among the Gods".



Vedic Man would find any attempt at dominating or subjugating the earth incomprehensible.

The earth is an object of worship and not of exploitation, an object of awe and not of curiosity (or research, as would be said in academic circles).

Investigation of the earth is of the same nature as personal introspection.

To harm the earth is a masochist vice.

The worshipping of the earth is not adoration of a creature as an absolute, that is, it is not idolatry.

In fact, it is the veneration of the highest value in the hierarchy of existence, for "undoubtedly this earth is the first born of being".

The relationship between the human and the earth is one of partnership.

Prayer to the Earth in Atharva Veda, depicts the earth, the universal mother, dispenser of every sort of good.

After describing the origins of earth, there follows a geographical description.

Then there is an account of her fragrance from plants, water, lotus, animals, human beings.

The Earth is the dwelling place of people.

It is upon her that they sing and dance and find their happiness.

She is the dwelling place of all living creatures.

She is a cosmic giant, a cosmic power, the receiver of prayers and the bestower of blessings, the protector and the inscrutable judge.

The earth is considered the mother: "The Earth is my mother, I am her son."

This reverence for the earth and dependence on her is expressed in a touching way: Whatever I dig up of you, O Earth, May you of that have quick replenishment! O purifying one, may my thrust never reach right unto your vital points, your heart!

In the Hindu tradition there is an underlying unity of all life, the world and all that exists.

The inter-connectedness of all life and creatures is affirmed to the scriptures.

The Divine permeates everything and radically connects all life, whether human or not.

That is, God and nature, the individual and others are all one, are all ultimately unified.

Following the same pattern, Bhagavad Gita affirms that atman is ultimately identical with Brahman. Hinduism is a religion in which the human is conceived as part and parcel of nature.

The natural phenomena are from a divine source. Behind the wide spectrum of gods and the rituals and sacrifices, there is this insight into the sacredness and divine origin of nature.

Thus, every natural force and phenomenon (for example, sky, sun, moon, rain, wind, thunder, rivers, mountains, forest, etc.) is considered to be a God and there are hymns praising and venerating it.

"Human being is not on the earth to conquer, dominate, and exploit, but to be an integral part of the organic whole. The gods, men, and nature formed one organic whole."

19. "Hinduism creates reverence for sacred nature and all living beings" - Rev. Kochuthara

In paper titled "Re-Discovering Christian Eco-theological Ethics" Rev Father Shaji George Kochuthara, CMI, deals with comparative philosophical position in the West and in India and how the West has to learn from India concept of reverence for nature to save the environment. Here are some extracts from Rev Father Kochuthara's paper which exhaustively deals with how the ancient Hindu literature revers nature.

One of the fundamental cosmological insights of the Indian tradition regarding this world is that "it is indwelt by the Lord of the Universe and hence it is sacred". He quoted Ishaavaasyam idam sarvam yat kim ca jagatyam jagat, tena tyaktena bhunjithaah maa gridhah kasyasvid dhanam".

(Meaning:- The revolving world together with every minute particle in it is indwelt by the Lord.)

The Hindu vision affirms the sacredness not only of the human being, but everything in nature.



According to the Hindu concept, the material causes of the created world are the Pancha Bhootas (Five Great Elements), namely, Prithvi (earth), Vayu (air), Akash (space), Apah (water) and Agni (light/fire). These cosmic elements create, nurture, and sustain all forms of life; after death and decay they absorb what was created earlier. Thus, in the preservation and sustenance of the environment, these elements play a vital role. These are deified in the sacred scriptures.

In the Hindu tradition there is an underlying unity of all life, the world and all that exists. The inter-connectedness of all life and all creatures is affirmed by the scriptures.

The Divine permeates everything and radically connects all life, whether human or not. That is, God and nature, the individual and others are all one, are all ultimately unified. Following the same pattern, Bhagavad Gita affirms that atman is ultimately identical with Brahman. Hinduism is a religion in which the human is conceived as part and parcel of nature. The natural phenomena are from a divine source. Behind the wide spectrum of gods and the rituals and sacrifices, there is this insight into the sacredness and divine origin of nature. Thus, every natural force and phenomenon (for example, sky, sun, moon, rain, wind, thunder, rivers, mountains, forest, etc.) is considered to be a god and there are hymns praising and venerating them. "Human being is not on the earth to conquer, dominate, and exploit, but to be an integral part of the organic whole. The gods, men, and nature formed one organic whole."

Animals, in the Vedic vision, are not inferior creatures, but manifestations of god on the lower scale of evolution compared to man. Animals like monkey, elephant, tiger, cow, bull, etc., occupy important places in the spectrum of god. "Spiritually, there is no distinction between human beings and other forms of life. All forms, including plants and animals, are manifestations of god as limited beings (jivas). Even micro organisms are jivas, having souls of their own".

catholicethics.com/sites/default/files/u3/Shaji_Hekima%2043.pdf

20. "Other civilisations have to learn from Hindu spiritualism" - Rev. Kochuthara

In the abstract of the paper Fr.Kochuthara says that Christianity, with the theology of 'dominating earth', is often accused of having been responsible for the present crisis. He admits that that certain emphases in the Christian tradition did not facilitate a reverential attitude to nature, and says that uncompromising commitment to a transcendental God and the prohibition of worship of any other being, implying a denial of the immanence of God in his creation. Any attempt to consider the nature as sacred

would be labelled as pantheism and idolatry and the Christian emphasis on the spiritual nature of human beings over against the physical nature of the other creatures are some of the main reasons for the lack of reverence for nature in Christian tradition, even though he contends that it is unjust to attribute to Christianity the sole responsibility for environmental destruction. The most important part of his paper is that Hinduism can help us [Christians] to discover further on our own eco-theology. He further says that we [Christians] develop a reverential attitude to nature.

catholicethics.com/sites/default/files/u3/Shaji_Hekima%2043.pdf



After exhaustively considering the sources of ancient Hindu literature that see humans as part of nature and profess and proclaim reverence to nature, the Rev Father talks about how the Christianity can learn from Hinduism on how to revere nature. The Rev Father says:

This attitude of reverence and

gratitude to the earth and the whole cosmos in Hinduism shows us the possibility of working together to face the ecological crisis and to respond together to the spiritual inadequacy that many feel in the face of this crisis. There are differences in the basic faith vision and convictions, but a more critical re-evaluation of interpreting Hindu approach to nature as pantheistic and naturalistic will help us to understand better the richness of these traditions and to find common grounds to work together. Many have said the same regarding African religions which have a reverential approach to the nature. Besides convincing us of the possibility of working together, this will also help us to re-discover our own eco-theology and ecoethics, to reconsider the interpretations in the past and to correct the imbalances.

21. "Religious Conversion has led to Environmental Destruction" - Henry Lamb

The Lamb report says further that the United Nations has accepted the view that the religious beliefs which propound the world and nature were created for the enjoyment of man, have caused the havoc.



Lamb says: The religions that taught the world that "In the beginning, God created...," are condemned by the United Nations: "Societies dominated by... [such beliefs].... have gone farthest in setting humans apart from nature and in embracing

a value system that has converted the world into a warehouse of commodities for human enjoyment. In the process, not only has nature lost its sacred qualities; conversion to Christianity has meant an abandonment of an affinity with the natural world for many forest dwellers, peasants and fishers all over the world. These people followed their own religious traditions, which included setting apart between 10 and 30% of the landscape as sacred groves and ponds.

Most of these people were drawn into the larger market economy and converted to Christianity by the late 1950s. On so converting to a religious belief system that rejects assignment of sacred qualities to elements of nature, they began to cut down the sacred groves to bring the land under cultivation...." [lbid p839]

This is the most explicit and authentic admission that conversion from traditional faiths has led to the destruction of environment.

22. The Malshegu Sacred Grove in Northern Ghana



religious beliefs The environmental protection study by Center for International Development and Environment World Resources Institute Washington, D.C., USA study concluded: "The principal driving behind forces Malshequ's effective protection of its sacred grove include a strong religious

belief in the grove as the sanctuary of the local god - in good measure a result of the effectiveness of the religious leader, the rules and practices established centuries ago to guide people in their use of the forest and its resources, and the growing regional importance of the sanctuary as other local sacred groves become degraded or lost.

The study also added: "villages seeking to protect sacred sites threatened by non-believers need the support and backing of the government for the legal authority to implement and enforce traditional resource management strategies and practices".

The study noted: The government of Ghana's recognition of the importance of traditional religious beliefs in local-level natural resource management and its recent policy, legislative, and programming actions to further empower communities to take greater control of their resources have the potential to lead to improved local initiatives in environmental protection and management. Other governments and international development assistance agencies concerned with natural resource management may learn from Ghana's example.

http://pdf.usaid.gov/pdf_docs/pnaca562.pdf

23. Plants and Animals not resources but living beings - Henry Lamb

Now, a paradigm shift is taking place in the West-centric world and religions – West looks to Indian thought to protect nature. In his seminal work "ecologic Special Report titled "Green Religion and Public Policy" [October, 2001] Henry Lamb, founder of the Environmental Conservation Organisation [1988] Sovereignty International Inc [1996] and Freedom21 Inc [1999] brings out the huge paradigm shift that is taking place in the West, particularly US, in environment related religious beliefs. Extracts from his work are produced hereunder:



"In the beginning, God created..." is the assumption on which western culture has advanced for more than two millennia. This assumption is now obsolete - in the minds of the world's policy makers. Western civilizations have believed that man was created in "God's image," and is the

crown jewel in all of God's creation. This belief too, is obsolete in the minds of many people who implement public policy:

Lamb Concludes: "This new, "enlightened" view of the world has permeated our schools for more than a generation. Our churches and our governments -- at every level – are filled with people who subscribe to this new world view. How, exactly, this paradigm shift has occurred is worthy of close examination. More importantly, how will this change in world view impact the lives of Americans today and in the future?"

Therefore, according to Henry Lamb, for the past one generation, environmental paradigm is effecting huge changes in the West including in the Christian Church and theology. The Hindu spiritual values in which the Ancient Indian environmental consciousness inheres is becoming relevant as the Hindu spiritualism is the only ancient model that is in a living form in the contemporary world.

"Human happiness..... became a cancer......a plague upon ourselves and upon the Earth. Until such time as homo sapiens should decide to rejoin nature, some of us can only hope for the right virus to come along." So says David Graber, a research biologist with the National Park Service.

The western world has progressed using plants and animals as resources to meet the needs of people. Plants and animals are no longer resources; they are living beings, of equal value to humans, with equal rights. The United Nations agrees with this view.

In its 1140-page instruction book for implementing the Convention on Biological Diversity, Global Biodiversity Assessment, (Cambridge University Press, for the United Nations Environment Program, 1995), p. 787

24. Animals and Birds as Part of Environment

Animals and birds are part of nature and environment. It is natural, therefore, that Vedic seers have mentioned about their characteristics and activities and have desired their welfare.

Rig-veda classifies them in three groups - sky animals like birds, forest animals and animals in human habitation. - *Rigveda 10.90.8*



All the three types of living creatures found in the universe have distance environment and every living creature has an environment of its own. But when we look from man's perspective all of them constitute his environment. There is a general feeling in the Vedic texts that animals should be safe, protected and healthy. (Yajurveda19.20, 3.37; Atharvaveda 11.2.24)

Domestic animals, as well as wild animals along with human beings should live in peace under the control of certain deities like Rudra, Pushan etc.

25. Environment Compatible - Ancient Philosophy

The environment - compatible ancient philosophy incorporated cultural and religious rituals, whichingrained and implanted sentimental attachment for environment - including trees, plants, animals, rivers, ponds lakes and actualise the philosophic idea of oneness of humans and nature.

The earth is worshipped [Bhoomi Vandanam] whenever people use the earth, whether for ploughing or for constructing a house or even to put a stage for any art or music performancesuch ritualswere practiced because nature was considered sacred and as part of divinity, but not as a secular phenomenon.

Hundreds of millions of people practice these rituals. This is manifest in the following results:

- > Even though India has only 2.4 % of world's landscape and 17% of world's population,
- ➤ It has 18% world's population of cattle.
- > It has a fourth of its area covered by forest
- > It has 8% worlds recorded species
- > 41% of Indians vegetarians are the largest vegetarian population in the world.

Vegetarianism is the biggest sustainer of environment ["10 ways Vegetarianism can help save the planet" The Guardian UK. 18 July 2010]

According to a 2006 United Nations initiative, the livestock industry is one of the largest contributors to environmental degradation worldwide, and modern practices of raising animals for food contribute on a "massive scale" to air and water pollution, land degradation, climate change, and loss of biodiversity. The initiative concluded that "the livestock sector emerges as one of the top two or three most significant contributors to the most serious environmental problems, at every scale from local to global.

Livestock's Long Shadow – Environmental issues and options". Fao. org. Retrieved August 9, 2009.

http://www.diseaseproof.com/archives/cat-green-living.html

http://www.theguardian.com/lifeandstyle/2010/jul/18/vegetarianism-save-planetenvironment

26. Excessive Meat Eating Damages Environment Ecology And Global Climate – I



The United Nations Environment Program (UNEP) has dubbed beef – a Climate Harmful Meat'. It is very energy intensive to produce every gram of beef, on an average every hamburger results in 3 kg of carbon emissions to the atmosphere. Today, saving the planet is really

about ensuring sustainable consumption, but meat production is unfortunately a highly energy intensive exercise.

Meat eaters in general, beef eaters in particular are among the most non-friendly to the global environment, reports the United Nations body, the Food and Agriculture Organisation (FAO) in Rome.

It may come as a surprise but globally beef production is one of the leading culprits for climate change. Some even suggest that beef is the devil or the 'Shaitan' of the meat production industry. That having said, the lynching of a man on the suspicion that he consumed beef can never be justified in any society.

Experts suggest that giving up beef will reduce the global carbon footprint on earth far more than avoiding use of cars!

If one examines the numbers closely, livestock production contributes more towards global warming than does the transport sector in total, through emissions of gases that result in changing the climate.

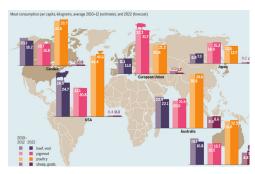
According to FAO, the livestock sector is responsible for 18 per cent of the global greenhouse gas emissions as compared to the transport sectors' 15 per cent.

In a study 'Livestock's Long Shadow: Environmental Issues and Options', the FAO concludes that "the livestock sector is major player and its contributions to climate change has a higher share than transport".

Earth lovers are voicing their concern and shaming meat eaters. Most recently Laurence Tubiana, the charismatic French Ambassador for Climate Change Negotiations for the big climate summit that is to be held in a few weeks in Paris said, "This over consumption of meat is really killing many things (there has to be a campaign) that big meat consumers should stop that. At least try one day without meat."

27. Excessive Meat Eating Damages Environment Ecology And Global Climate - II

According to a 2012 estimate by Ministry of Agriculture, India is home to 512 million livestock of which cows and buffaloes together account for 111 million animals. Most of the animals in India are not reared for slaughtering, but prized for milk and ploughing. UNEP estimates that in 2012 the world was home to 1.43 billion cattle.



So do not start feeling guilty that Indians are highly environment friendly when measured on the scale of meat eating and livestock numbers. A landmark 2012 study 'Growing greenhouse gas emissions due to meat production' by UNEP finds

that on an average Indians consume only 12 grams of meat per person per day which is almost 10 times lower than the global average of 115 grams.

In comparison, the US leads with over 322 grams of meat being eaten per person per day with China at about 160. Hence, on an average a meat eating American contributes 25 times more to global warming as compared to a non-vegetarian Indian.

A 2012 estimate by the Department of Animal Husbandry, Dairying and Fisheries says the country produced 5.9 million tonnes of meat of which poultry's (mostly chicken) contribution to the total meat production is about half with less than 5 per cent of the meat coming from beef.

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In comparison in 2009, the world produced 278 million tons of meat, which means that India accounts for just about 2 per cent of the world's meat production while housing 17 per cent of the world's cattle population.

28. Excessive Meat Eating Damages Environment Ecology And Global Climate - III

It may sound astounding but beef production on an average requires 28 times more land and causes 11 times more global warming as compared to other livestock categories found a 2014 study by the prestigious Yale University in US, published in the Proceedings of the National Academy of Sciences which concluded that "minimising beef consumption mitigates the environmental costs of diet most effectively".



Tim Benton of the University of Leeds, UK, not associated with US study felt "the biggest intervention people could make towards reducing their carbon foot prints would not be to abandon cars, but to eat significantly less red meat".

Beef production is also bad for water conservation since cattle rearing for beef require almost 10 times more water as compared to staple crops like wheat and rice.

In contrast, pork production uses three times less water as compared to beef ranching. Cattle also emit a highly potent climate changing gas called 'methane' in their farts and through belching. Also called 'marsh gas' this inflammable gas is produced in the guts of cattle by the bacteria as they digest the food of ruminants and methane is 21 times more potent than carbon di-oxide in causing global warming.

[http://economictimes.indiatimes.com/news/science/beef-eating-bad-for-environment-experts/articleshow/49307401.cms]

29. Excessive Meat Eating Damages Environment Ecology And Global Climate - IV

Using data from a Swedish study the UNEP says "in terms of greenhouse gas emissions the consumption of 1 kg domestic beef in a household represents automobile use of a distance of 160 kilometers".



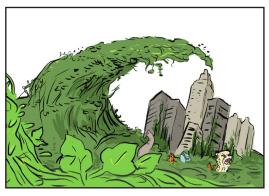
This means a car traveling all the way from New Delhi to Agra would cause about the same amount of global climate change as is done by consuming just one kg of beef! No wonder beef is considered highly environmentally unfriendly.

Nevertheless, at the same time in dry and arid regions of the world livestock are considered a 'savings bank' by local people as they form part of the life-saving kit to overcome the harsh environment.

Meat eating may not be 'green' but as more and more people become affluent, meat is becoming chic and fashionable. FAO estimates that by 2050 the global meat consumption will rise to 460 million tonnes. The, global environment watchdog the UNEP recommends a shift to 'less climate harmful' meats and emphasises that "healthy eating is not just important for the individual but for the planet as whole".

[http://economictimes.indiatimes.com/news/science/beef-eating-bad-for-environment-experts/articleshow/49307401.cms]

30. India has a great responsibility to save the world from environmental and ecological destruction



The modern life style of the West based on comfort for humans has caused discomfort for animals and destruction of nature. The Western life model has reached a dead end in the environmental

sense.

India is the only ancient civilisation, which has retained its ancient wisdom in practical life. **Indians still revere nature. They worship trees. They regard the entire creation as manifestation of divinity**. These are not habits which were cultivated in one day. This was founded on their philosophy of life given by rishis and saints and followed by their forefathers.

The Indian faith and lifestyle, particularly in villages, is largely environment friendly. There is still simplicity in villagers's life style and habits. Indians still have fewer wants. **Indians turn waste into wealth – like repairing and using things** and not throwing old things as useless but finding use for them like the younger brothers using the clothes which do not fit the elder ones. They still use natural products for **their day to day needs**.

India has the environmental-philosophy and Indians, particularly in the villages have environment-friendly lifestyle to demonstrate to the world a living model which, can save the flora and fauna from destruction and extinction. India has its **ancient wisdomwhich protects environment and is in current practice**. It is their greatest advantage to present before the modern world a functioning life model that protects and sustains environment.

The young Indians must be made aware of the scientific basis of their traditions and samskarams and should be persuaded to participate voluntarily in the samskarams. This will enable them to tell the world that the Indian philosophy and lifestyle are the basis for the future world.

The National Intelligence Council of America [attached to the powerful spy agency CIA] declared that India would be among the three major world powers. India isprojected increasingly as the global leader. It therefore has the dutyto expound a new environmental paradigm for the future world based on its ancient wisdom to save the world from environmental chaos.

It is with this object in view the IMCT has devised series of thematic samskarams for awareness and protection of environment – including protection of forests and wild animals.

31. Prayers in Vedas to Sustain Environment

In the Atharva Veda there is prayer which draws attention to the ecological balance of these elements and how the earth is the upholder of the moral order.

We beseech the earth to protect us and to purify us.

We pray to her to give us the mountains as well as the flowing rivers.

We ask her to bear herbs of manifold potency on whom food and crops grow and animals roam.

We seek the blessings of the Ether to bless us by fertilizing the earth by proper rainfall at times.

We also pray that let the earth be kind to us and we should be kind to it.

This philosophy of coexistence given by the Indians tells us about the high level of importance given by our ancestors for sustainability. We have lot of reverence to our plants.

The Rig-Veda tells about the importance of plants & herbs with respect to their medicinal value and personifies the jungle as the mocking genius of the woods.



The Vedas devote many hymns to the water. We consider them to be the great superintendent of the cosmic moral order. It is he who looks after the heaven, earth and well beyond that boundary. Air is similarly considered to be the basic life giver and any kind of disrespect to it is abhorred.

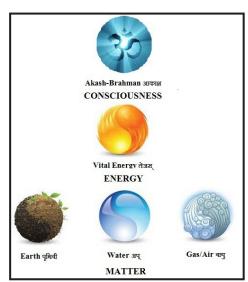
The Indian philosophical thought is in tune with nature. The present generation has to fall back upon the previous wisdom and learn by their mistakes.

It is by integrating the five elements of Mother Nature in a balanced proportion that it is possible for us to achieve sustainability of environment.

"Bless that Mother Nature be kind to us; the heavens give us peace. The earth be gentle; Gentle be the waters that flow; Gentle be the plants and herbs that grow. May the past be kind; the future benign. (Atharva-veda.19.9.1).

This in a nutshell gives us the much required knowledge for preserving our environment for future generations to come.

32. Creation of Nature



Air provides the connectivity to the Earth on one hand and the three lokas above viz. the heaven, sky and the intermediate ones as that universal link is the catalytic agent in the context of Creation of the Universe. This is also the overall connection for meditation the Deitiescommencing with Aani denoting the foremost and bright entity while the third one being Surya while water is the rallying point or the iunction liahtnina as

provides the link; this is in the context of Connectivity of the Basic Elements of the Universe. On the mortal plane of creation, the first letter is mother and the father is the last letter while the focal point or the junction constitutes progeny and the connection is generation. Similarly Guru is the first letter; Shishya is the third letter while the rallying medium or junction is knowledge, Teaching or imparting knowledge is the connection while active meditation is the end product. While referring to an individual body, the lower jaw is the first letter, upper jaw is the latest letter and tongue is the connection and speech is the 'Sandhi' the junction! These are the examples of combinations resulting in progeny and so on. Vidya or awareness and Reality are thus linked by Meditation in essence.

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Akashat Vayuhu, Vayur Agnihi, Agnir Apaha, Adyah Pruthivi,

Pruthivya Oshadhayaha, Oshadhayo Annam, Annaath Purushaha

"Akashat Vayuhu," From the space, the air came. **Space is the first manifestation**.

Prana created its own abode by generating Air. Air is the second manifestation.

"Vayur Agnihi" From the air, fire came. **Fire is the third manifestation**. And "Agnir Apaha" **Water is the fourth manifestation**.

"Adyah Pruthivi" From this water manifested the earth. **Earth is the fifth manifestation**.

"Pruthivya Oshadhayaha" From the earth, vegetation came. **This is the sixth manifestation**.

"Oshadhayo Annam" From the vegetation, food came. **This is the seventh manifestation**.

"Annaath Purushaha" From this food, the Jeevi came. **This is the eighth manifestation**.

The five elements in human body are classified as follows:



- 1. Entire physic emotions in us which are likes, dislikes, modesty, fear, ignorance are qualities of Akasha Bhuta, the Space element in the body.
- 2. Inhaling, exhaling, running, walking, contraction, expansion are qualities of Vayu Bhuta, the Air Element in the body.
- 3. Body Heat, hunger, thirst are qualities of Agni Bhuta, the Fire element in the body.

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- 4. Blood, semen, bone-marrow, urine, and saliva are qualities of Aapa Bhuta, the Water Element in the body.
- 5. Bones, flesh, veins, and arteries are qualities of Prithivi Bhuta, the Earth Element in the body.

http://www.speakingtree.in/blog/the-chronology-of-the-five-elements

33. Concept of Ether ['AKASHA']



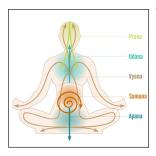
Modern environmentalists discuss sound or noise pollution. There is a relation between ether and sound. The sound waves move in sky at various frequencies. Scientist could see the sky which exists only in the vicinity of earth, but Taittirya Upanishad throws light on two types of ether i.e: one inside the body

and the other outside the body. - Taittiriya Upanshad 1.6.1; 1.5.1

The ether inside the body is regarded as the seat of mind. An interesting advice to the mankind is found in the Yajurveda, 'Do not destroy anything of the sky and do not pollute the sky Do not destroy anything of Antariksha.' - Yajurveda 5.43

Sun shines in Dyuloka and we get light from sky. The sunrays strengthen our inner power and are essential for our life. Thus importance and care for ether is openly mentioned in the Vedic verses.

34. Concept of Air ['VAYU']



The observer space is the abode of matter particles, light space is the abode of energy and the intermediate space 'Antariksha' is the abode of field. The principal deity of Antariksha is Vayu. JaiminiyaBrahmana quotes,'Vayu brightens in Antariksha.' Field is another form of energy and, therefore, Yajurveda says,' Vayu has penetrating brightness.' The meaning of Vayu is made

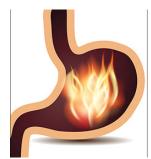
clear in ShatapathaBrahmana in the following Mantra: 'Sun and rest of universe is woven in string. What is that string, that is Vayu.' - Yajurveda 1.24 This verse clearly shows that here Vayu cannot mean air alone. Apparent meaning of Vayu is air.

The Vedic seers knew the importance of air for life. They understood all about air in the atmosphere and also about the air inside the body. The Taittiriya Upanishad throws light on five types of wind inside the body: "Prana, Vyana, Apana, Udana and Samana" Air resides in the body as life. - *Taittiriya Upanishad*, 2.4

Concept and significance of air is highlighted in Vedic verses. Rigveda mentions 'O Air! You are our father, the protector.'- *Rigveda 10.186.2*; 'Air has medicinal values.' - *Ibid, 1.37.2*; 'Let wind blow in the form of medicine and bring me welfare and happiness.' - *Ibid 10.186.1* Medicated air is the international physician that annihilates pollution and imparts health and hilarity, life and liveliness to people of the world. Hilly areas are full of medicated air consisted of herbal elements. Another verse describes characteristics of air. 'The air is the soul of all deities. It exists in all as life-breath. It can move everywhere. We cannot see it. Only one can hear its sound. We pray to air God.' - *Ibid 10.168.4*

Ancient Indians, therefore, emphasized that the unpolluted, pure air is source of good health, happiness and long life. Air pollution causes many diseases are discovered by Caraka in about 200 BCE. 'The polluted air is mixed with bad elements. The air is uncharacteristic of season, full of moisture, stormy, hard to breathe, icy cold, hot and dry, harmful, roaring, coming at the same time from all direction, bad smelling, oily, full of dirt, sand, steam, creating diseases in the body and is considered polluted.' – Caraka Samhita, Vimanastanam III 6:1

35. Concept of the Fire ['AGNI']

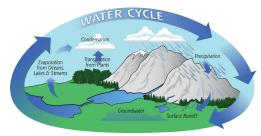


There are several instances of references to Agni in Vedas — eg O' pious fire, your flames are expanding all sides flickering by air bright, your flames bring destroying darkness and devours forest... - *Rig Veda*. The earth is fully responsible for our food and prosperity. She is praised for her strength. She is served day and night by rivers and protected by sky. The immortal heart of earth is in the highest

firmament (Vyoma). Her heart is sun.

'She is one enveloped by the sky or space and causing the force of gravitation. She is described as holding Agni. It means she is described as the geothermal field. She is also described as holding Indra i.e., the geomagnetic field. The earth is described then as being present in the middle of the oceans (sedimentary rocks) and as one having magical movements.'The hymn talks about different energies, whichare generated from the form of the earth. 'O Prithivi! thycentre, thy navel, all forces that have issued from thy body- Set us amid those forces; breathe upon us.' (Atharvaveda12.1.12) Thus, the earth holds almost all the secrets of nature, which will help us in understanding the universe. She is invested with divinity and respected as mother. The earth is my mother and I am Her son.'- Atharvaveda, 12.1.12 The geographical demarcations on this earth have been made by men and not by nature.

36. Concept of Water ['APAH']



'All living beings are dependent on water. The water which comes in the form of rain goes to rivers, ponda and wells. The food grains are grown by this water.'- Rig-veda. 7.101.3-4.

Water is essential to all forms of life. According to Rig-veda the water as a part of human environment occurs in five forms:

- 1. Rain water (Divyah)
- 2. Natural spring (Sravanti)
- 3. Wells and canals (Khanitrimah)
- 4.Lakes (Svayamjah)
- 5. Rivers (Samudrarthah)

Water pollution:

"Water is considered polluted when it is excessively smelly, unnatural in color, taste and touch, slimy, not frequented by aquatic birds, aquatic life is reduced, and the appearance is unpleasing". (Caraka Samhita, Vimanastanam III 6:2)

Instruction for reducing water pollution:

"One should not cause urine, stool, cough in water. Anything which is mixed with these un-pious objects, blood, poison, should not be thrown into water". – *Manusmriti IV: 56*

Warning:

Persons doing such unsocial activities and engaging in acts polluting the environment were cursed: "A person, who is engaged in killing creatures, polluting the wells, and ponds, and tanks and destroying gardens, certainly goes to hell" – Padmapurana, Bhoomikhanda 96: 7-8

37. Concept of The Earth ['PRITHVI']

The concept of the form of the earth in the Rig-veda is most fascinating. It is mostly addressed along with the heaven into a dual conception (Rodasi, Dyavaprithivi). There is one small hymn addressed to Prithivi, while there are six hymns addressed to Dyavaprithivi. Prithivi is considered the mother and Dyau is considered the father in the Vedas, and they form a pair together. One of the most beautiful verse of the Rig-veda says, 'Heaven is my father, brother atmosphere is my navel, and the great earth is my mother.' Rigveda 1.164.33

Heaven and earth are parents: Matara, Pitara, Janitara (*Rigveda1*. 159,160) in union while separately called as father and mother. They sustain all creatures. They are parents of all gods. They are great (Mahi) and widespread. Earth is described as a goddess in Rig-veda.

In the Atharvaveda, the earth is described in one hymn of 63 verses. This famous hymn called as Bhoomisukta or Prithivisukta indicates the environmental consciousness of Vedic seers. The seers appear to have advanced understanding of the earth through this hymn. She is called Vasudha for containing all wealth, Hiranyavaksha for having gold bosom and Jagato Niveshani for being abode of whole world. She is not for the different races of men alone but for other creatures also. (*Atharvaveda 12.1.15;12.1.45*)

38. Bhoomi Vandanam – in other Ancient Traditions-I

Mother Nature (sometimes known as **Mother Earth** or the **Earth-Mother**) is a common personification of nature that focuses on the life-giving and nurturing aspects of nature by embodying it in the

form of the mother. Images of women representing mother earth, and Mother Nature, are timeless.

In prehistoric times, goddesses were worshipped for their association with fertility, fecundity, and agricultural bounty. Priestesses held dominion over aspects of Incan, Algonquian, Assyrian, Babylonian, Slavonic, Germanic, Roman, Greek, Indian, and Iroquoian religions in the millennia prior to the inception of patriarchal religions.

The word nature comes from the Latin word, *natura*, meaning birth or character (see nature (innate)). In English its first recorded use, in the sense of the entirety of the phenomena of the world, was very late in history in 1266; however *natura*, and the personification of Mother Nature, was widely popular in the Middle Ages and as a concept seated between the properly divine and the human, it can be traced to Ancient Greece - though Earth or Eorthe in the Old English period may have been personified as a goddess and the Norse also had a goddess called Jord *Earth*.

The earliest written and safely dated literal references to the term "Mother Earth" occur in Mycenaean Greek *ma-ka* (transliterated as *ma-ga*), "Mother Gaia", written in Linear B syllabic script (13th or 12th century BC). The various myths of nature goddesses such as Inanna/Ishtar(myths and hymns attested on Mesopotamian tablets as early as the 3rd millennium BC) show that the personification of the creative and nurturing sides of Nature as female deities had deep roots. In Greece, the pre-Socratic philosophers had "invented" nature when they abstracted the entirety of phenomena of the world as singular: *physics* and this was inherited by Aristotle. Later medieval Christian thinkers did not see nature as inclusive of everything, but thought that she had been created by God; her place lay on earth, below the unchanging heavens andmoon. Nature lay somewhere in the centre, with agents above her (angels) and below her (demons and hell). For the medieval mind she was only a personification, not a goddess.

In Greek mythology, Persephone, the daughter of Demeter, goddess of the harvest, was abducted by Hades, god of the dead, and taken to theunderworld as his queen. Demeter was so distraught that no crops would grow and the "entire human race [would] have perished of cruel, biting hunger if Zeus had not been concerned" (Larousse 152). Zeus forced Hades to return Persephone to her mother, but

while in the underworld, Persephone had eaten pomegranate seeds, the food of the dead and thus, she must spend part of each year with Hades in the underworld. Demeter's grief for her daughter in the realm of the dead, is reflected in the barren winter months and her joy when Persephone returns is reflected in the bountiful summer months. Demeter would take the place of her grandmother, Gaia, and her mother, Rhea, as goddess of the earth in a time when humans and gods thought the activities of the heavens more sacred than those of earth. [Leeming, *Creation Myths of the World: An Encyclopedia*]

39. Bhoomi Vandanam - in other Ancient Traditions-II

Algonquian legend says that "beneath the clouds lives the Earth-Mother from whom is derived the Water of Life, who at her bosom feeds plants, animals and human" (Larousse 428). She is also known as **Nokomis**, the Grandmother.

In Inca mythology, *Mama Pacha* or Pachamama is a fertility goddess who presides over planting and harvesting. Pachamama is usually translated as "Mother Earth", but a more literal translation would be "Mother Universe" (in Aymara and Quechua mama = mother / pacha = world, space-time or the universe).[6] Pachamama and her husband, Inti are the most benevolent deities and are worshiped in parts of the Andean mountain ranges, also known as Tawantinsuyu (stretching from present day Ecuador to Chile and Argentina).

In the Southeast Asian Indochina countries of Cambodia, Laos and Thailand, earth (terra firma) is personified as Phra Mae Thorani, but her role in Buddhist mythology differs considerably from that of Mother Nature.

In the Malay Archipelago, that role is filled by Dewi Sri, The Ricemother in the East Indies.

The Earth Mother is a motif that appears in many mythologies. The Earth Mother is a fertile goddess embodying the fertile earth and typically, the mother of other deities, and so, also is seen as patronesses of motherhood. This is generally thought of as being because the earth was seen as being the mother from whom all life sprang.

In South America, contemporary Andean Indian peoples such asthe

Quechuaand Aymara believe in the Mother Earth Pachamama, whose worship cult is found in rural areas and towns at Ecuador, Peru, Bolivia, Northern Chile and Northwestern Argentina. Andean migrants carried the Pachamama cult to cities and many other extra-Andean places, including metropolitan Buenos Aires.

40. Bhoomi Vandanam in Other Traditions -III

- 1. In Sumerian mythology "Ki" is the earth goddess.
- 2. In Akkadian orthography she has the syllabic values *gi, ge, qi,qe* (for toponyms). Some scholars identify her with Ninhursag (lady of the mountains), the earth and fertility Mother Goddess, who had the surnames Nintu (lady of birth), Mamma, and Aruru.
- 3. An Egyptian earth and fertility deity, Geb, was male and he was considered father of all snakes, however, the mound from which all life was created by parthenogenesis, represents Mut, the primal "mother of all who was not born of any". She is the more appropriate figure to discuss as the mother goddess in Ancient Egyptian religion. The number of Egyptian goddesses who are depicted as important mother deities is numerous because of regional cults of many very early cultures and a major unification of two ancient countries into one, whose written history only begins at approximately 3150 B.C. It is estimated that the some early cultures that eventually became parts of Ancient Egypt date back to 8000 B.C. and that human occupation of the Nile Valley by modern hunter gatherer societies dates back 120 thousand years.
- 4. The title "The mother of life" later was given to the Akkadian Goddess Kubau, and hence to Hurrian Hepa, emerging in Hebrew as Eve(Heva) and PhygianKubala (Cybele).
- 5. In Norse mythology the earth is personified as Jörð, Hlöðyn, and Fjörgyn and Fjörgynn.
- 6. In Germanic paganism, the Earth Goddess is referred to as *Nertha* The Irish Celts worshipped Danu, whilst the Welsh Celts worshipped Dôn. Hints of their names occur throughout Europe, such as the Don river, the Danube River, the Dnestr, and the Dnepr, suggest that they stemmed from an ancient Proto-Indo-European goddess.[26] In Lithuanian mythology Gaia Žemė (Lithuanian for "Earth") is daughter of Sun and Moon. Also she is wife of Dangus (Lithuanian for "Sky") (Varuna).

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41. Bhoomi Vandanam in other traditions- IV

- 1. In Pacific cultures, the Earth Mother was known under as many names and with as many attributes as cultures who revered her, such as the Māori, whose creation myth included Papatuanuku (Earth Mother), partner to Ranginui (Sky Father) or Varima-te-takere (goddess of the beginning), the primordial mother in Cook Islands mythology.
- 2. In South America in theAndes a cult of the Pachamama still survives (in regions of Bolivia, Peru, Ecuador, Argentina, and Chile). The name comes from Pacha (Quechua for *change*, *epoch*) and Mama (mother).
- 3. While ancient Mexican cultures referred to Mother Earth as Tonantzin Tlalli that means "Revered Mother Earth". Phra Mae Thorani is recognized as the Goddess of the earth in Burma, Cambodia, Laos, Thailand, and other Southeast Asian countries.
- 4. Only in late Egyptian Mythology does the reverse seem true Geb is the Earth Father while Nut is the Sky Mother, but the primordial and great goddess of Egypt was Mut, the source of all life and the mother of all. The mound of earth from which life sprang was Mut.
- 5. In Theosophy, the Earth Goddess is called the "Planetary Logos of Earth".
- 6. In Wicca, the Earth Goddess is sometimes called Gaia. The name of the Mother Goddess varies depending on the Wiccan tradition.
- 7. Carl Gustav Jung suggested that the archetypal mother was a part of the collective unconscious of all humans, and various Jungian students, e.g. Erich Neumann and Ernst Whitmont have argued that such mother imagery underpins many mythologies, and precedes the image of the paternal "father", in such religious systems. Such speculations help explain the universality of such mother goddess imagery around the world. The Upper Paleolithic Venus figurines have been sometimes explained as depictions of an Earth Goddess similar to Gaia.

8. In Native American Indian storytelling, "The Earth Goddess", is one of several Creator-based titles and names given to the Spider Grandmother. In ancient Hawaii, Nuakea was a mother goddess of lactation.

42. Co-ordination Between All Natural Powers

Modern Indian Scientists should be astonished and also feel proud of our ancestors for their knowledge and views about environment. Ancient seers knew about various aspects of environment, about cosmic order, and also about the importance of co-ordination between all natural powers for universal peace and harmony.

When they pray for peace at all levels in the 'Shanti Mantra' they side by side express their belief about the importance of coordination and interrelationship among all natural powers and regions.

Shanti Mantra in Yajur Veda and Atharva Veda pray for concordance among all natural forces - Heaven, Sky, Earth, Water, Herbs, Vegetation, Forests, Rulers, Spiritual Quest and Realisation and for all, every where and in every thing.

The prayer says, not-only regions, water, plants trees, natural energies but also all creatures should live in harmony and peace. Peace should remain everywhere.

The Mantra runs like this

Om Dyauh Shaantir-Antarikssam Shaantih Prthivii Shaantir-Aapah Shaantir-Ossadhayah Shaantih | Vanaspatayah Shaantir-Vishve-Devaah Shaantir-Brahma Shaantih

Sarvam Shaantih Shaantireva Shaantih Saa Maa Shaantir-Edhi | Om Shaantih Shaantih Shaantih ||

Meaning:

- 1: Om, May there be Peace in Heaven, May there be Peace in the Sky,
- 2: May there be Peace in the Earth, May there be Peace in the Water, May there be Peace in the Plants,
- 3: May there be Peace in the Trees, May there be Peace in the Gods in the various Worlds, May there be Peace in Brahman,

- 4: May there be Peace in All, May there be Peace Indeed within Peace, Giving Me the Peace which Grows within Me,
- 5: Om, Peace, Peace, Peace.

(Yajurveda36.1; Atharvaveda 19.9.94.).

http://www.greenmesg.org/mantras_slokas/vedas-om_dyauha_shantirantariksha_shantihi.php

The mantra takes about the concord with the universe peace of sky, peace of mid-region, peace of earth, peace of waters, peace of plants, peace of trees, peace of all-gods, peace of Brahman, peace of universe, peace of peace; May that peace come to me! (*Yajurveda 36.1; Atharvaveda 19.9.94.*)

From the above detailed discussion, some light is thrown on the awareness of our ancient seers about the environment, and its constituents. It is clear that the Vedic vision to live in harmony with environment was not merely physical but was far wider and much comprehensive.

The Vedic people desired to live a life of hundred years and this wish can be fulfilled only when environment will be unpolluted, clean and peaceful. The knowledge of Vedic sciences is meant to save the human beings from falling into an utter darkness of ignorance.

The unity in diversity is the message of Vedic physical and metaphysical sciences.

Ganga Vandanam

1. Composition of environment

Earth science generally recognizes four spheres:-the Lithosphere, the Hydrosphere, the Atmosphere, and the Biosphereas correspondent to rocks, water, air, and life. Some scientists include, as part of the spheres of the Earth, the cryosphere(corresponding to ice) as a distinct portion of the hydrosphere, as well as the pedosphere (corresponding to soil) as an active and intermixed sphere. Earth science(also known as geoscience, the geosciences or the Earth Sciences), is an all-embracing term for the sciencesrelated to the planet Earth.

There are four major disciplines in earth sciences, namelygeography, geology, geophysicsand geodesy. These major disciplines use physics, chemistry,biology, chronology and mathematicsto build a qualitative and quantitative understanding of the principal areas or *spheres* of the Earth system.

1. Ocean

An ocean is a major body of saline water, and a component of the hydrosphere. Approximately 71% of the Earth's surface (an area of some 362 million square kilometers) is covered by ocean, a continuous body of water that is customarily divided into several principal oceans and smaller seas. More than half of this area is over 3,000 meters (9,800 ft) deep. Average oceanic salinity is around 35 parts per thousand(ppt) (3.5%), and nearly all seawater has a salinity in the range of 30 to 38 ppt.

Though generally recognized as several 'separate' oceans, these waters comprise one global, interconnected body of salt water often referred to as the World Ocean or global ocean. This concept of a global ocean as a continuous body of water with relatively free interchange among its parts is of fundamental importance to oceanography.

The major oceanic divisions are defined in part by the continents, various archipelagos, and other criteria. These divisions are (in descending order of size) the Pacific Ocean, the Atlantic Ocean, the Indian Ocean, theSouthern Ocean and the Arctic Ocean.

2. Rivers

A river is a natural watercourse, usually freshwater, flowing toward an ocean, a lake, a sea or another river. In a few cases, a river simply flows into the ground or dries up completely before reaching another body of water. Small rivers may also be termed by several other names, includingstream, creek and brook.

In the United States a river is generally classified as a watercourse more than 60 feet (18 metres) wide. The water in a river is usually in a channel, made up of a stream bedbetween banks. In larger rivers there is also a wider floodplainshaped by waters over-topping the channel.

Flood plains may be very wide in relation to the size of the river channel. Rivers are a part of the hydrological cycle. Water within a river is generally collected from precipitation through surface runoff, groundwater recharge, springs, and the release of water stored in glaciers and snowpacks.

3. Stream

A stream is a flowing body of waterwith a current, confined within a bedand stream banks. Streams play an important corridorrole in connecting fragmented habitatsand thus in conserving biodiversity. **The study of streams and waterways in general is known as surface hydrology.** Types of streams include creeks, tributaries, which do not reach an ocean and connect with another stream or river, brooks, which are typically small streams and sometimes sourced from a spring or seep and tidal inlets.

4. Lake

A lake (from Latin *lacus*) is a terrain feature, a body of water that is localized to the bottom of basin. A body of water is considered a lake when it is in land, is not part of an ocean, is larger and deeper than a pond, and is fed by a river. Natural lakes on earth are generally found in mountainous areas, rift zones, and areas with ongoing or recent glaciation. Other lakes are found in endorheic basins or along the courses of mature rivers. In some parts of the world, there are many lakes because of chaotic drainage patterns left over from the last Ice Age. All lakes are temporary over geologic time scales, as they will slowly fill in with sediments or spill out of the basin containing them.

5. Pond

A pond is a bodyof standing water, either natural or man-made, that is usually smaller than a lake. A wide variety of man-made bodies of water are classified as ponds, including water gardens designed for aesthetic ornamentation, fish ponds designed for commercial fish breeding, and solar ponds designed to store thermal energy. **Ponds and lakes are distinguished from streams-via current speed**.

While currents in streams are easily observed, ponds and lakes possess thermally driven micro-currents and moderate wind driven currents. These features distinguish a pond from many other aquatic terrain features, such as stream pools and tide pools.

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2. Effects of Water Pollution- I

1. **Water pollution** is the contamination of water bodies: (eg.lakes, rivers, oceans, aquiferand groundwater).

Water pollution occurs when pollutants are directly or indirectly discharged into water bodies without adequate treatment to remove harmful compounds. Water pollution affects plants and organisms living in these bodies of water. In almost all cases the effect is damaging not only to individual species and populations, but also to the natural biological communities.

Water pollution is a major global problem, which requires ongoing evaluation and revision of water resource policy at all levels (international down to individual aquifers and wells). It has been suggested that it is the leading worldwide cause of deaths and diseases, and that it accounts for the deaths of more than 14,000 people daily. An estimation of 580 people in India die of water pollution related sickness every day.

Some 90% of China's cities suffer from some degree of water pollution, and nearly 500 million people lack access to safe drinking water. In addition to the acute problems of water pollution in developing countries, developed countries continue to struggle with pollution problems as well. In the most recent national report on water quality in the United States, 45 percent of assessed stream miles, 47 percent of assessed lake acres, and 32 percent of assessed baysand estuarine square miles were classified as polluted.

Water is typically referred to "as polluted" when it is impaired by anthropogeniccontaminants and either does not support a human use, such asdrinking water, or undergoes a marked shift in its ability to support its constituent biotic communities, such as fish. Natural phenomena such asvolcanoes, algae blooms, storms, and earthquakes also cause major changes in water quality and the ecological status of water.

Category

Surface water and groundwater have often been studied and managed as separate resources, although they are interrelated. Surface water seeps through the soil and becomes groundwater. Conversely, groundwater can also feed surface water sources.

Sources of surface water pollution are generally grouped into two categories based on their origin.

a. Point sources

Point source water pollutionrefers to contaminants that enter a waterway from a single, identifiable source, such as a pipeor ditch. Examples of sources in this category include discharges from a sewage treatmentplant, a factory, or a city storm drain. The U.S. Clean Water Act (CWA) defines point source for regulatoryenforcement purposes. The CWA definition of point source was amended in 1987 to include municipal storm sewer systems, as well as industrial stormwater, such as from construction sites.

b. Non-point sources

Nonpoint source pollution refers to diffuse contamination that does not originate from a single discrete source. **NPS pollution is often the cumulative effect of small amounts of contaminants gathered from a large area**. A common example is the leaching out of nitrogencompounds from fertilized agricultural lands. Nutrient runoffin-storm water from "sheet flow" over an agricultural fieldor a forest is also cited as examples of NPS pollution.

Contaminated storm water washed off of parking lots, roads and highways, called urban runoff, is sometimes included under the category of NPS pollution. However, this runoff is typically channeled into storm drain systems and discharged through pipes to local surface waters, and is a point source.

3.Effects of Water Pollution-II

Groundwater pollution

Interactions between groundwater and surface water are complex. Consequently, groundwater pollution, sometimes referred to as groundwater contamination, is not as easily classified as surface water pollution. By its very nature, groundwater aquifers are susceptible to contamination from sources that may not directly affect surface water bodies, and the distinction of point vs non-point source may be irrelevant.

A spill or ongoing releases of chemical or radionuclide contaminants into soil (located away from a surface water body)

may not create point source or non-point source pollution, but can contaminate the aquifer below, defined as a toxin plume. The movement of the plume, called a plume front, may be analyzed through ahydrological transport model or groundwater model. Analysis of groundwater contamination may focus on the soil characteristics and site geology, hydrogeology, hydrology, and the nature of the contaminants.

https://en.wikipedia.org/wiki/Plume_hydrodynamics

Causes

The specific contaminants leading to pollution in water include a wide spectrum of chemicals, pathogens, and physical or sensory changes such as elevated temperature and discoloration. While many of the chemicals and substances that are regulated may be naturally occurring (calcium, sodium, iron, manganese, etc), the concentration is often the key in determining what is the natural component of water, and what is a contaminant. High concentrations of naturally occurring substances can have negative impacts on aquatic flora and fauna.

Oxygen-depleting substances may be natural materials, such as plant matter (e.g. leaves and grass) as well as man-made chemicals. Other natural and anthropogenic substances may cause turbidity (cloudiness) which blocks light and disrupts plant growth, and clogs the gills of some fish species.

Many of the chemical substances are toxic. Pathogens can produce waterborne diseases in either human or animal hosts. Alteration of water's physical chemistry includes acidity (change in pH), electrical conductivity, temperature, and eutrophication. Eutrophication is an increase in the concentration of chemical nutrients in an ecosystem to an extent that increases in the primary productivity of the ecosystem. Depending on the degree of eutrophication, subsequent negative environmental effects such as anoxia (oxygen depletion) and severe reductions in water quality may occur, affecting fish and other animal populations.

4. Pollution of the Sacred Ganga

In a country where all Revere Rivers and worship Ganga, the mighty perennial river is amongst the most polluted ones in the world.

The Ganges is the largest river in India with an extraordinary religious importance for Hindus. Along its banks are some of the world's oldest inhabited places like Varanasi and Patna. It provides water to about 40% of India's population in 11 states with an estimation of 500 million people or more, which is larger than any other river in the world. Today, it is fifth most polluted river in the world. Recently a drive was undertaken, in which the river has to be cleaned. The municipal commissioner urged people to refrain from polluting.

Human waste

The Ganges river basin is one of the most fertile and densely populated regions in the world and covers an area of 1,080,000 km2 (400,000 square miles). The river flows through 29 cities with population over 100,000, 23 cities with population between 50,000 and 100,000, and about 48 towns. A large proportion of the waste in the Ganges is from this population through domestic usage like bathing, laundry and public defecation.

Industrial waste

Countless tanneries, chemical plants, textile mills, distilleries, slaughterhouses, and hospitals contribute to the pollution of the Ganges by dumping untreated waste into it. Industrial effluents are about 12% of the total volume of effluent reaching the Ganges. Although a relatively low proportion, they are a cause for major concern because they are often toxic and non-biodegradable.

Dams

Built in 1854 during the British colonization of India, the Haridwar dam has led to decay of the Ganges by greatly diminishing the flow of the river. The Farakka Barrage was built originally to divert fresh water into the Bhagirathi River but has caused an increase of salinity in the Ganges, having a damaging effect on the ground water and soil along the river. The barrage has caused major tension between Bangladesh and India. The government of India has planned about 300 dams on the Ganges and its tributaries in the near future despite a government-commissioned green panel report that has

recommended scrapping 34 of the dams citing environmental concerns.

The Ganga is polluted because rivers are seen more as resources rather than living bodies- like humans and other living beings. This attitudinal change is because of the paradigm shift of people's outlook which preserves Ganga water as an asset rather than as a sacred river. Even though there are efforts to remove the pollution of the Ganga, the real change can come only if the consciousness that rivers and waters are sacred. It calls for reinstating our tradition of "Ganga Vandanam" that needs to be revived-not only to protect Ganga, but all rivers and water bodies.

5. Water and Rivers as sacred in ancient Indian Traditions

In ancient India, water has been an object of worship from time immemorial. It has diverse socio-religious uses and plays a central role in many religious ceremonies and rites. Water and in turn water bodies have been traditionally held sacred for the following reasons:

- 1. Almost all rivers, lakes, springs are attributed some degree of holiness and are often associated with the local pantheon of Gods and Goddesses.
- 2. Most Indian rivers are usually believed to be manifestations (avatars) of Goddesses. Rivers have been given a divine status and have been worshipped since ancient times.
- 3. Water plays a vital role in holy rituals / rites. It cleanses our body and hence, symbolizes purification.

The ecological significance of water—asa source and sustainer of life.

The rhythm of life is dictated by water and Hindus hold rivers in great reverence. India is a country that not only nurtures the resources that nature has bestowed upon her, but also worships them for the all-round prosperity they bring in their wake. Rivers are one such gift, which is considered highly sacred throughout the length and breadth of the country. This is primarily because these mighty rivers have perennially been a source of livelihood to millions of people living in areas lying along their courses. No wonder people see in them a manifestation of divine female power (shakthi).

"Sindhu in might surpasses all the streams that flow.... His roar is lifted up to heaven above the earth; he puts forth endless vigour with a

flash of light. Even as cows with milk rush to their calves, so other rivers roar into the Sindhu. As a warrior- king leads other warriors, so does Sindhu lead other rivers. Rich in good steeds is Sindhu, rich in gold, nobly fashioned, rich in ample wealth"says the Rig Veda.

6. River Water as divine in other ancient traditions

Water is a primordial element which underlays creation myths and stories around the world.

- 1. The Egyptian Heliopolitan creation story recounts that the sun-god Atum (*Re*) reposed in the primordial ocean (*Nun*).
- 2. In Assyro-Babylonian mythology, first the gods and subsequently all beings arose from the fusion of salt water (*Tiamat*) and sweet water (*Apsu*). Water divinities of various kinds appear in the mythologies of many cultures.
- And not surprisingly, the world abounds in sacred springs, rivers, and lakes. Even within the Judeo-Christian tradition, which generally avoids the veneration of the various phenomena of Nature, there are numerous examples of sacred springs or wells, and rivers.
- 4. The water of the River Jordan is sacred because Jesus Christ was baptized in it by Saint John, Baptist. The spring at Lourdes is sacred because of its healing properties in connection with the appearance of the Virgin Mary to Bernadette.
- 5. **In Japan**, water prefigures the purity and pliant simplicity of life. The Japanese make pilgrimages to waterfalls.
- 6. The lotus-stream of the Buddha or Boddhisattvarises up from the waters of the soul, in the same way the spirit, illumined by knowledge, frees itself from passive existence.
- 7. **The Roman** philosopher Seneca declared that where a spring rises or water flows there we ought to build altars and offer sacrifices.
- 8. **The Celts** venerated natural springs of water for their sacred and medicinal value and many examples of holy wells are known, many of them were later Christianized through rededication to a saint. This practice of venerating sacred wells continued into the Christian era in the West, though they were now referred to as wishing wells.

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- 9. **In China**, the water of the fountain at Pon Lai was believed to confer a thousand lives on those who drink it and a similar reputation was attached to the springs of Mount Lao Shan.
- 10. Sacred springs were enshrined by **the Ancient Greeks**.
- 11. Goddesses and nymphs were connected with certain rivers, springs, and wells by the **Celts and Romans**.
- 12. Often the river was named after the goddess, such as the Shannon River, after Sinann, and the Boyne, after Boann, **in Ireland**,
- 13. And the Seine, after Sequana, in Gaul (**France**).
- 14. **The Celts** subsequently established a shrine there dedicated to Sulis, and later **the Romans** built on the same spot a temple to Sulis Minerva (and renamed the town AquaeSulis). In 218 CE, after defeating the Romans, Hannibal and his armies stopped to imbibe the waters at Perrier in the south of France.
- 15. The water at Evians-les-Bains, on the southern side of Lake Geneva, was discovered in ancient times; in 363 CE, the Roman emperor Flavius Claudius Jovianus stopped there on his way to Germany. The natural spring waters at Evians-les-Bains are marketed today as Evian.
- 16. The waters at San Pellegrino in Lombardy in northern Italy have beenknown since Roman times. Rediscovered in the 12th century, one of the famous pilgrims (*pellegrino* means pilgrim) who came to take the waters there was Leonardo da Vinci. The spa was established there in 1848, and bottling of the water begun in 1899.

http://witcombe.sbc.edu/sacredplaces/water.html

7. Names of sacred lakes and Rivers in India

Indian Traditions consider that most of the rivers are feminine because of their producing nature and revere them as goddess. Most of the lakes are designated as masculine.

Some of the well-known sacred lakes and rivers of India are as follows:

LAKES: -

- 1. Drongasagar
- 2. Gurudongmar
- 3. Hemakund
- 4. Khecheopalri
- 5. Mani Mahesh
- 6. Manikaran
- 7. Pushkar
- 8. Tsomgo

RIVERS: -

- 1. Bhagirathi
- 2. Brahmaputra
- 3. Chambal
- 4. Gandaki
- 5. Ganga
- 6. Ghaghara
- 7. Godavari Gomti
- 8. Gumti
- 9. Jhelum
- 10. Kali Ben
- 11. Kaveri
- 12. Krishna
- 13. Mahanadhi
- 14. Narmada
- 15. Pamba
- 16. Phalgu
- 17. Pykara
- 18. Shipra
- 19. Tapti
- 20. Thamirabarani
- 21. Tungabhadra

22. Vaigai

23. Yamuna

http://www.cpreecenvis.nic.in/Database/Sacred_rivers_885.aspx

8. Ganga Vandanam

The rivers are generally female divinities, food and life bestowing mothers. As such, they are prominent among the popular divinities represented in the works of art of the classical period. The most holy of rivers, the best known and most honored, is the Ganga or Ganges. She is personified as Goddess Ganga. The sacred river Ganges not only provides water for the land; the water is itself the symbol of life without end. The doorway of every temple in India is guarded by an anthropomorphic representation of river Ganga.

'O Mother Ganga, may your water, abundant blessing of this world, treasure of Lord Shiva, playful Lord of all the earth, essence of the scriptures and embodied goodness of the gods, May your water, sublime wine of immortality, Soothe our troubled souls.'

The story of the descent of the Ganga is an ecological story. The above hymn is a tale of the hydrological problem associated with the descent of a mighty river like the Ganga. H.C. Reiger, the German Himalayan ecologist, described the material rationality of the hymn in the following words:

"In the scriptures a realization is there that if all the waters which descend upon the mountain were to beat down upon, the naked earth would never bear the torrents... In Shiva's hair we have a very well-known physical device which breaks the force of the water coming down... the vegetation of the mountains".

The ancient city of Allahabad (formerly known as Prayag) lies at the confluence of the Ganga (Ganges) and the Yamuna, two sacred rivers that have been the cradles of Indian civilisation. The city is mentioned in the oldest Indian literature such as the Vedas, Ramayana, Mahabharata and the Puranas. According to Hindu tales, Lord Brahma, the creator chose a place where three of the holiest

rivers on earth could meet in harmony. The city is also referred to as `Tirth Raj' or the `king of pilgrimage centers'.

"The Ganga is a living presence, a protector, a healer of ills. The Ganga is as alive as it ever was with the hopes and dreams of an entire culture. Says Pundit Jawaharlal Nehru "I am proud of this noble heritage which was and still is ours, and I am aware that I too, like all of us, am a link in that uninterrupted chain which finds its origin in the dawn of history, in India's immemorial past. It is in testimony of this and as a last homage to the cultural heritage of India that I request that a handful of my ashes be thrown in the Ganga at Allahabad, so that they may be borne to the vast ocean that bears on the shores of India."

(source: The India I Love - By Marie-Simone Renou p.128). Refer to If the Ganga lives, India lives. If the Ganga dies, India dies - By Vandana Shiva

http://www.hinduwisdom.info/Nature_Worship4.htm

Thematic Quiz: Sustain Environment

The Earth and Water as the Centre of Natural Environment

1.	Theenvironment encompasses all living and non-living things occurring naturally on Earth (Natural)
2.	The natural environment encompasses the interaction of all living (species)
3.	Completeunits function as natural systems without massive human intervention. A. Eco friendly B. Ecological C. Green D. Environment
4.	The natural environment is contrasted with the environment strongly influenced by humans. (Built)
5.	Aarea without human intervention is regarded as a natural environment A. Historical B. Geographical C. Earthly D. Regional
6.	Natural environment is often used as a synonym for A. Dwelling B. Environment C. Habitat D. Locality
7.	It is the earth and water - the oceans and rivers which constitute the of natural environment A. Body B. Middle C. Bulk D. Core.
	Composition of Environment
8.	A is a terrain feature, a body of water that is localized to the bottom of a basin A. Pond B. Creek C. Lake D. tank
9.	A body of water is considered a lake when it is A. Coaster B. Inland C. Central D. Border
10.	Natural lakes on Earth are generally found inareas. A. Colossal B. Enormous C. Mountainous D. Elevated
11.	Other lakes are found in endorheic basins (that do not flow into the seas) or along the courses of (Mature rivers)
12.	In some parts of the world, there are many lakes because of patterns left over from the last Ice Age. A. Systematic drainage B. chaotic drainage C. turbulent D. Lawless

13.	fill in with sediments A. Lasting B. Shifting C. Temporary D. Unstable
14.	A is a body of standing water either natural or man- made (pond)
15.	What is usually smaller than a lake? A. River B. Ocean C. Pond D. Stream
16.	A wide variety of man-made bodies of water are classified as A. Lagoon B. Ponds C. Pool D. Small lake
17.	Fish ponds are designed for commercial fish A. Culture B. Polish C. Development D. Breeding
18.	Solar ponds are designed to store A. Melting energy B. Thermal energy C. Luke warm D. Sweltering
19.	Ponds and lakes are distinguished from A. Shed B. Cascade C. Streams D. Repress
20.	While currents in streams are easily observed Ponds and lakes possess thermally driven (micro-currents)
21.	The atmosphere of the Earth serves as a key factor in sustaining the (planetary ecosystem)
22.	The thin layer of gases that envelops the Earth is held in place by the (planet's gravity)
23.	How much of nitrogen does the dry air consist? A. 20% B. 78% C. 50% D. 64%
24.	How much of Oxygen does the dry air consist? A. 41% B. 1% C. 21% D. 26%
25.	Filtered air includes trace amounts of many A. Alchemical B. Enzymatic C. Synthesized D. chemical compounds .
26.	Which of following contains a variable amount of vapor and suspensions of water droplets? A. Water B. Fire C. Air D. Clouds

21.	depleting the amount ofradiation that reaches the surface. A. Gamma Radiation B. Ultraviolet C. Beta Particles D. Alpha Particles
28.	As is readily damaged by UV light, the ozone layer serves to protect life at the surface A. WBC B. RNA C. DNA D. RBC
29.	The atmosphere also retains during the night, thereby reducing the daily temperature extremes. (Heat)
	What is Environmental Pollution?
30.	pollution is the biggest menace to the human race on this planet today A. Noise B. Water C. Environmental D. Air
31.	Due to trees being cut down rapidly, and earth pollution our earth is becoming A. Stormy B. Pleasant C. Flushed D. Warmer.
32.	If pollution continues, the day is not far when our earth will be a and become a A. Solitary, bare B. Boiling pan, Desert C. Wild, infertile D. Sterile, Lonely
33.	is always needed for inhaling (Pure air)
34.	What causes diseases and impairs our health and causes our death? A. Pure air B. Unhealthy food C. Impure air D. Pollution
35.	pollutes the air. It is the root of air pollution A. Pollution B. Smoke C. Vapor D. Fog
36.	The smoke which is discharged from and is the mixture of carbon monoxide etc. (Industries, automobiles)
37.	Carbon monoxide, carbon dioxide etc are called gases A. Non toxic B. Infective C. Poisonous D. Septic
38.	The carbon monoxide, carbon dioxide etc cause which take a heavy toll of life A. Lung Cancer B. Throat Cancer C. Heart disease D. Jaundice

39.	In which year did the Bhopal gas leak, a glaring incident of air pollution, happen?
	A. 1980 B. 1984 C. 1992 D. 1970
40.	Due to a gas leak in Bhopal, thousands of the residents died due towhich was caused by methyl isocyanate gas A. Liver problem B. Heart problem C. Lungs problem D. Kidney problem
41.	The decaying and also cause air pollution A. Fruits, vegetable B. Fruits, Plants C. Vegetable, Animals D. Plants, Animals .
42.	The harsh sounds of buses, mopeds etc, affect our power of hearing and causes A. Wind trouble B. Heart trouble C. Vapors trouble D. Loss of hearing
43.	In which place near the Dum Dum airport have a large number of people lost their power of hearing? A. Cochin B. Baroda C. Calcutta D. Hyderabad
44.	The waters ofand are being constantly polluted all over the world by various dangerous chemicals (Rivers, Seas)
45.	and discharge very harmful waste waters
	into many rivers and seas A. Shops, Firm B. Foundry, Mint C. Salt mines, Forge D. Mills, Factories.
46.	The water of the flowing by the side of both Varanasi and Calcutta is extremely polluted A. Yamuna B. Ganges C. Narmada D. Cauvery
47.	The Indians even drink water of the Ganges for
48.	A. Preservation B. Exemption C. Salvation D. Pardon
49.	Reckless application of chemical fertilizers, insecticides and pesticides pollutes theA. Air B. Water C. Land D. Soil.
50.	Vegetables and fruits are quite injurious today, because they contain the poison of and A. Bacteria, Fungus B. Insecticides, Pesticides
	C. Fungicide, loam D. Organic fertilizers, Weed killer

51.	Realizing the danger, we must in large numbers to absorb impure air (plant trees)
52.	Impure water from industries can be sent back for and then it can be used for purpose
53.	A. Distillation, Purge B. Absolution, Logging C. Purification, Irrigation D. grace, Irrigation
	Main causes of Soil Pollution
54.	Soil pollution is often associated with indiscriminate use of A. Cultivation B. Feeding C. Landscaping D. Farming chemicals.
55.	applied to plants can also leak into the ground leaving long-lasting effects A. Fungicide B. Pesticides C. Paraquat D. Defoliant
56.	Some of the found in the fertilizers may accumulate above their toxic levels A. Powder B. Gunpowder C. Harmful chemicals D. Armament
57.	Some chemicals found in the fertilizers ironically lead to the poisoning of A. Fruits B. Crops C. Yield D. Vegetable
58.	Heavy metals can enter the soil through the use of for crops A. Fertilizers B. Poisons C. polluted water D. Powder
59.	Bursting of underground bins and seepage from faulty sewage systems could cause the leakage of into the soil A. Germs B. Virus C. Toxins D. Venom
60.	caused by industrial fumes mixing in rain falls on the land A. Sun shower B. Acid rains C. Flood D. Rainstorm
61.	Which of the following could dissolve away some of the important nutrients found in soil? A. Chemicals B. Fertilizers C. Germs D. Acid rain.
62.	Which of the following is one of the biggest soil-pollution factors? A. Contaminated materials B. Pollution C. Industrial waste D. Nuclear waste
63.	Iron, steel, and chemical Industries irresponsibly use the Earth as a ground A. Disposition B. Dumping C. Discarding D. Scrapping

64.	from automobiles, which get washed by rain, can seep into the nearby soil, polluting it. A. Nourishments B. Propellant C. Fuel leakages D. Incitement
65.	Which of the following is the major cause for soil erosion? A. Logging B. Denuding C. Deforestation D. Erosion
66.	Due to deforestation, soil particles are and carried away by water or wind A. Disturb B. Eject C. Dislocate D. Dislodged.
67.	Due to deforestation, the soil loses it structure as well as important found in the soil A. Chemicals B. Nutrients C. Mineral D. Fuel
	Effects of Soil Pollution
68.	The effects of pollution on soil are quite disturbing and can result in huge disturbances in the (Ecological balance)
69.	Soil Pollution causes disturbance in the balance of and inhabiting in the soil A. Verdure, Plants B. Fruits, animals C. Flora, Fauna D. Plants, vegetables
70.	Contaminated soil decreases and hence there is decrease in the soil yield. A. Infertility B. Soil fertility C Richness D. Sterility
71.	Normally crops cannot grow and flourish in a soil A. Sterilize B. Debase C. Polluted D. Cleanse
72.	If some crops manage to grow in polluted soil, then these crops might have absorbed the in the soil A. Harmless B. Toxic chemicals C. Septic D. Healthy
73.	Soil pollution is in the form of increased of the soil A. Chemicals B. Fertilizers C. Healthy D. Salinity.
74.	The polluted soil becomes unhealthy for and often becomes useless and barren. A. Flora B. Vegetation C. Herbage D. Greenery
75.	When soil pollution modifies the soil structure, deaths of many in the soil could take place. A. Plant B. Inanimate C. Soil organisms D. Abstract

76.	on the largerA. Vehicles B. Meat eater C. Predators D. Beast of prey
77.	People living near tend to have higher incidences of migraines and even miscarriages. A. Sanctify B. Sully area C. Spoil area D. Polluted land.
78.	The health problems in certain areas could be a result ofby the polluted land A. Adulterated B. Direct poisoning C. Murder D. Injure
	6. Air Pollution
79.	is the introduction into the atmosphere of chemicals or biological materials that cause damages.
80.	A. Water Pollution C. Noise pollution D. Environmental pollution
81.	Theis a complex dynamic natural gaseous system that is essential to support life on planet Earth A. Air B. Sky C. Atmosphere D. Heavens
82.	ozone depletion due to air pollution has long been
	recognized as a threat to human health as well as to the Earth's ecosystems (Stratospheric)
83.	pollution and quality are listed as two of the World's Worst Toxic Pollution Problems in 2008 (Indoor air, Urban air)
84.	A substance in the air that can be adverse to and the environment is known as an air pollutant A. Body B. Soul C. Mortal D. Humans .
85.	Pollutants can be in the form of liquid droplets, or gases A. Stable B. Solid particles C. Materials D. Rooted
86.	Pollutants may be natural or
87.	Unnatural B. False C. Man-made D. Manufactured
88.	Pollutants can be classified as and A. Leading, Simple B. Central, Dominant C. Chief, Secondary D. Primary or Secondary.
89.	Usually, primary pollutants are directly produced from a process, such as ash from a
90.	A. Inflammable B. Volcanic eruption C. Volatile D. Impulsive

91.	A. Particles B. Ash C. Primary Pollutants D. Articles
92.	is one of the many secondary pollutants that make up photochemical smog (Ground level ozone)
	6. Health effects of Air Pollution
93.	Air pollution is a significant risk factor for multiple health conditions including according to the WHO A. Kidney problem B. Jaundice C. Throat cancer D. Respiratory infections.
94.	Which pollution affects health, aggravating respiratory problems, and cardiac conditions? A. Water B. Air C. Sound D. Environmental
95.	The most common sources of air pollution include particulates,and (ozone, nitrogen dioxide, and sulfur dioxide)
96.	How many million deaths have approximately happened due to both indoor and outdoor air pollution? A. 3 million B. 3.3 million C. 4 million D. 4.3 million
97.	Children aged less than that live in developing countries are the most vulnerable population terms of total deaths attributable to indoor and outdoor air pollution A. 3 years B. 10 years C. 5 years D. 2 years
98.	According to WHO, how many people die each year from causes directly attributable to air pollution? A. 2 million B. 2.4 million C. 3 billion D. 2.4 billion
99.	Epidemiological studies suggest that more than 500,000 Americans die each year from disease A. Lung cancer B. Kidney C. Liver D. Cardiopulmonary.
100	. A study by the University of Birmingham has shown a strong correlation between related deaths and air pollution from motor vehicles. A. Heart B. pneumonia C. Liver D. Jaundice
	 More deaths per year worldwide, are linked to than to automobile accidents A. Disease B. Suicide C. Air pollution D. Accidents The US EPA estimates that a proposed set of changes in technology could result in 12,000 fewer premature
	mortalities A. Mechanism B. Power train C. Cylinder D. Diesel Engine

103. The US EPA estimates, allowing a concentration of 6	5
parts per billion would avert 1,700 to 5,100 premature deaths cor	n-
pared to the present 75ppb. (Ground-level ozone)	
104. The worst short-term civilian pollution crisis in India was	
the (Bhopal Disaster)	
105. Which country suffered its worst air pollution event on December 4 of 1952 when a Great Smog formed over its city?	oer
A. United States B. United Kingdom C. India D. Srilanka	
106. During it's the worst air pollution disaster in United Kingdom of 1952, in six days more thandied.	f
A. 300 B. 880 C. 4000 D. 10000	
107. How many people died in the incident of air pollution that occurred in the US in Donora, Pennsylvania?A. 500 B. 20 C. 1200 D. 400	
108. The number of annual premature deaths due to air pollution is considerably higher than the fatalities related to	
A. Disease B. Auto collisions C. Suicide D. Air pollution	
109 is a major contributor to combustion derived partic late matter air pollution. (Diesel exhaust)	u-
Studies show that, due to air pollution in the Los Angeles Basin California more than people die prematurely every yeaA. 3200 B. 1500 C. 3800 D. 4000	r.
7. Loss of environmental traditions-main cause of	
environmental decay	
111. To ancient people, Nature was to God and was not be examined	to
A. Related B. Uniform C. Analogous D. Resembling	
112. The believers and of Modern Enlightenment had to)
separate nature from God	
A. Counsellor B. Leaders C. Employees D. Superior	
113. Beliefs of the Modern Enlightenment led to the of nature. (Feminization)	
Boyle suggested that examination of man is an examination of_A. Power B. Soul C. God D. Creator	
115converted Nature as "an automation" to be examin	nec
(Modern Enlightenment)	
116. When nature was feminized and degraded, suggest that it made possible for people to exploit and study it	S
A. Boyle B. Carolyn Merchant C. Bacon D. William Alston	

a so that it could be studied and exploited.
A. Soft nature B. Polluted nature
C. Feminized nature D. Masculine nature
118. In which year, did the United Nations Conference on Human
Environment at Stockholm that proposed the concept of sustainable
development take place?
A. 1980 B. 1972 C. 1973 D. 1985
119. In 1983 The General Assembly realized that there was
heavy of the human environment and natural resources. A. Spoiling B. Atrophy C. Deterioration D. Improvement
120. The Bruntland Commission defined as "development that meets the needs of the present without compromising the abili-
ty of future generations to meet their own needs.
A. Continual B. Renewable
C. Imperishable development D. Sustainable development.
121. The Bruntland Commission believes that people can build a future
that is more more just, and more secure
A. Blooming B. Lucky C. Prosperous D. Fortunate
122. The Bruntland Commission says "Our report is not only
a of ever increasing environmental decay, and hardship in
ever more decreasing resources"
A. Indicator B. Prediction C. Dope D. Divination
123. The Bruntland Commission says "We have the power to
human affairs with the natural laws and to thrive in the process"
A. Compose B. Rectify C. Reconcile D. Regulate
8. The relevance of Ancient Indian tradition for
environmental sustainability -Study
124. Environment includes water air and land and the inter- rela-
tionship which exists among and between water, air and land
and (living creatures)
125. It is known from the Vedic times that the and
form an inseparable part of life support system (Nature,
Human being)
126. The wise mention three elements which are water, air and plants
or herbs that are called meaning 'coverings available
everywhere (Chandansi)
127. According to one indigenous theory established in the,
the universe consists of five basic element.
A. Vedics B. Epics C. Upanishads D. Vedas

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117. The scientists utilized undignified metaphors to create

128	and have been the earliest known docu-
	mented ancient texts of Indian Origin
	A. Yajurveda, Samaveda B. RIGVEDA, Yajurveda
	C. ATHARVAVEDA, Samaveda D. RIGVEDA, ATHARVAVEDA .
129	The importance of Environmental sustainability has been pro-
	pounded as the or the proper equilibrium of five Pancha
	Boothas as we call it
	A. Combination B. Fusion C. Amalgamation D. Blend
	The five elements of the Physical Universe are Earth, Water, Fire,
	Air and (Ether)
	The five elements of the Physical Universe are considered in India
	to be reflections of
	A. Devil B. Divinity C. Evil D. Higher power
	All the five elements of the Physical Universe have been wor-
	shipped and revered since
	A. Current times B. Venerable
	C. Ancient times D. Fossil times
133.	In the there is prayer which draws attention to the
	ecological balance of these elements
	A. Yajur veda B. Atharva Veda C. Sama Veda D.Rig Veda
	A prayer in Atharva Veda says "We beseech the to
	protect us and to purify us"
	A. Water B. Nature C. Earth D. Plants
	A prayer in Atharva Veda says "We pray earth to give us
	the as well as the flowing rivers" A. Depression B. Stack C. Volcano D. Mountains.
	A prayer in Atharva Veda says "We ask earth to bear of manifold potency, on whom food and crops grow and animals roam.
	A. Grasses B. Herbs C. Flowers D. Saplings
	Atharva Veda says "We seek the blessings of the Ether to bless us
	by the earth by proper rainfall at times.
	A. Treat B. Inseminate C. Fertilizing D. Germinate
	Atharva Veda says "We also pray that let the be kind
	to us and we, to it".
	A. Nature B. Earth C. Star D. Planet
139	We have lot of to our plants
	A. Dishonor B. Love C. Reverence D. Loyalty
	Which Veda tells about the importance of plants & herbs with
	respect to their medicinal value and personifies the jungle as a
	mocking genius?
	A. Sama Veda B. Rig Veda C. Yajur Veda D. Atharva Veda
	,

141. The Rig Veda explains the importance of plants & neros with
respect to their value A. Salutary B. Remedial C. Tonic D. Medicinal.
142. The Vedas devote many hymns to
A. Nature B. Earth C. Water D. Rain
143. We consider water to be the great superintendent of
the order
A. Global B. Cosmic moral C. Catholic D. Planetary
144. It is water who looks after the heaven, earth and well beyond that
144. It is water who looks after the heaven, cartif and wen beyond that
A. Perimeter B. Verge C. Extent D. Boundary.
145 is similarly considered to be the basic life giver and
any kind of disrespect to it is abhorred
A. Nature B. Air C. Water D. Fire
146. Water, earth, tree and plant maintain the balance of
the cosmos
A. Structural B. Dimensional C. Spatial D. Geographical
147. The night and dawn are the keepers of order and each
is the goddess, mother, wife, woman or girl
A. Angelic B. Celestial temporal C. Immortal temporal D. Blessed
148. Any disturbance in the order needs, ritual or sacrifice
thereby placing the factor of sustainability at its highest order
A. Suffering B. Purgation C. Penance D. Remorse
149. The Indian philosophical thought is in with nature
A. Strain B. Silence C. Aria D. Tune
150. The present generation has to fall back upon the previ-
ous and learn by their mistakes A. Knowledge B. Enlightenment C. Wisdom D. Stability
151. Sustainability of the environment is possible by integrating the
five elements of in a balanced proportion (Mother Na-
ture)
152. Due to balanced proportion of Nature it is possible for us to
achieve of environment. A. Verify B. Sustainability C. Preserve D. Save
153. Atharva Veda says, "Bless that Mother Nature be kind to us; the
heavens give us"
A. Unity B. Love C. Peace D. Truce
154. Atharva Veda prays, "The earth be gentle; Gentle be
the that flow"
A. Rain B. River C. Mountain Falls D. Water

	. Atharva Veda pray	s, " Gentle b	e the plan	ts and	_ that
	grow"				
	A. Flowers B. Fr			_	
156	The prayer from A				
	required knowledge	for preserving	g our	for futur	e genera-
	tions to come.		^ \A/otom	D. Jungle	
	A. Nature B. Envir			•	c
157	is a soc				ong toun-
	dation on biological a A. Wisdom	B. E			
	C. social philosophy	D. C	onviction	c	
150	Social sciences' ph				mothods
	of	illosophly is ti	ie study c	ii tile alliis allu i	Hethous
	A. Social philosophy	B. Wisdom	1		
	C. Eco philosophy	D. Social so	ience		
159				nd such question	ns as
	whether natural thin				
	dard anthologies)			•	
160	. Who is the moder	n connect be	tween an	cient Indian hun	nanistic
	traditions and moder	n values?			
	A. Jawaharlal Nehru				
	C. Bharathiyar	D. Ir	ndira Gand	idb	
	. Truth and Harmon		o Gandhi	are the	
	codes for Sustainabili	•	_	_	
	A. Wrong B. Correct	t C. Ethica	D. Bad		
	8. Traditional	culture an	d ecolos	ical knowled	ge in
			_	management	_
	Demazong and Ap			scape in	
	Arunachal Pradesh				
	(c) Andhra Pradesh				
163	. In the v	illagers renev	ved their	efforts at biodiv	ersity
	conservation.	(a) 2012	(4) 1000		
	(a) 1974 (b) 1987				
164	No				
	(a) Economical (c) Commercial	(b) A	auveruser ita	nent	
	. The villagers would			the amount of	.000112000
100	. The villagers woul	u tilelliselves	regulate	the amount of f	esources

they could extract from the and undertake measures
to tackle soil erosion.
(a) Ocean (b) Desert (c) Mountain (d) Forests
166. Forests would not be set on
(a) Air (b) Fire (c) Water (d) All the above
167. In the region of India, tribal communities meet a
substantial proportion of their resource.
(a) North – Westen (b) East – Southern
(c) Western - Southern (d) North-Eastern
168. They live in complete with nature.
(a) Co-operation (b) Disagreement
(c) Harmony (d) Conformity
169. Sacred groves, or UmangLais, as they are called in the Meetei
language, form an integral part of the of nature worship.
(a) Manipuri Tradition (b) Tamil Nadu Tradition
(c) Gujarat Tradition (d) Tradition
170. Several species of plants are protected in these, which
also offer protection to birds and animals.
(a) Forest (b) Groves (c) Bushes (d) All of these
171. However, many of these animals are not eaten during certain
periods, probably with the motive of sustainable and conservation.
(a) Farming (b) Threshing (c) Cultivate (d) Harvesting
9. Eastern Philosophies on
Environment friendliness and compatibility
172. Environmental consciousness is not anidea
a) Ignorant b) Rational c) Intellectual d) Creative
173. Environmental consciousness is a value
a) Secular b) Spiritual c) Earthly d) Holy
174. In Eastern philosophies, consisting of the Hindu, Buddhist, Jain
andare considered inter-related a) Nature b) Jungle c) Environment d) Climate
175Upanishad, one of the most sacred ancient Hindu
scriptures of ancient.
a) Sarvasara b) Isavasya
c) Subala d) Jabaladarsana
176. Isavasya Upanishad translated by
a) Mangal Pandey b) Rajendra Prasad c) Bahadur Shah d) Mahatma Gandhi
c) banadul Shall uj Walladila Galluli

1//. Kalachakra lantra, sacred is scripture
a) Jainism b) Sikhism c) Buddhist d) Zoroatrianism
178. Achara Sutra, the sacred text, says, the five elements
are not lifeless matter they have soul
a) Jainism b) Sikhism c) Buddhist d) Zoroatrianism
179. Shinto belief regards the land, its nature, and all creatures including the beautiful to the land.
ing the human as children of a) Nature b) Environment c) Divine d) Celestial
180. The entireof Eastern philosophies converges on the
view that the entire creation is manifestation of the divine.
a) Nature b) World c) Human d) Spectrum
181. The Eastern philosophies are eco-centric whereand
natures are inter-related
a) Humans b) Rivers c) Animals d) All of these
10. Science says: Western Faiths Destroyed Nature Which
Traditional Faiths Had Protected And Preserved
182 destroyed Nature which had Protected and Preserved (Western Faiths, traditional Faiths)
183 a research book co-authored by Advisor
on scientific issues to US President Barack Obama (Eco-science ,
John P Holdren)
184 of trees, rivers, and other aspects of nature will
protect nature in traditional societies. (Worship)
185. Western society's destructive attitude towards nature lies in
the (Judeo-Christian tradition)
186. Destroying made it possible for humans to exploit
nature in a mood of indifference to the feeling of the natural object. (Pagan animism)
187. Belief in worship of and other aspects of nature are
destroyed by the western religious. (Trees & rivers)
188. Due to the activities by the western religious and rationalist
establishments, in the last few centuries, the result was the huge
(Destruction of nature)
189. The reverence for the nature through develops love
and care for nature in people. (Samskaram)
11. Christian Priest Deals The Ancient Hindu Literature
"Atharva Veda"
190. Earth occupies a special place among the
a) Divine b) Gods c) Delightful d) Human
Sustain Environment99

191		Man would find a	any attempt at do	minating or subjugat-
		h incomprehensi		
	a) Sacred	b) Secular	c) Vedic d) N	one of these
192	of th	ne earth is of the	same nature as p	ersonal introspection.
	a) Investigat	tion b) W	orship c) Reve	rence d) Survey
193	. The wors	hipping of the ea	arth is not	of a creature as
	an absolute			
	a) Disregard	b) Devotion	c) Adoration	d) Shine
194	. The relati	ionship between	the human and t	heis one
	of partnersh	nip		
	a) Nature	b) Earth	c) Forest	d) Animals
195	. Prayer to	the Earth in	Veda, de	picts the earth,
	dispenser of	f every sort of go	od.	
	a) Sama	b)Yajur c) Atha	rva d) Rig	
196	. The Earth	n is the	place of peo c) Dwelling	ple
	a) Quarters	b) Abode	c) Dwelling	d) Castle
197	. The earth	n is considered as	the c) Sacred	
	a) Divine	b) Mother	c) Sacred	d) Earthly
198	. The inter	-connectedness	of all life and crea	tures is affirmed to the
	-		criptures d) None	
199		affirms th	at atman is ultima	ately identical with
	Brahman			
		l Gita b) Ram	•	
		atham d) Srim	_	
200			which the human	is conceived as part
	and parcel of			
			c) Sikhism	
201				nsidered to be a
			c) God d) Cruci	
202				dominate, and exploit,
			the organic whole	
			g c) Creatures	
203	. The gods	, men, and	formed on c) Animals	e organic whole.
	a) Nature	b) Women	c) Animals	d) Forest

"Hinduism creates reverence for sacred nature and all living beings" - Rev. Kochuthara

204. In a paper titled "Rediscovering Ethics" deals with com in the West and in India? (Rev Fatl	parative philosophical position ner Shaji George Kochuthara)
205. One of the fundamental regarding this world, is that it is in and hence sacred. (Cosmological i	dwelt by Lord of the universe nsights)
206. The Hindu vision affirms the sac but everything in Natu	
207. According to the Hindu concept created world are (Par	cha Bhootas)
208. These create nature (Cosmic elements)	and sustain all forms of life
209. Pancha Boothas, which are vita sustenance of the environment, as scriptures. (Sacred)	
210. The everything and whether human or not (Divine Pe l	
211. After and created earlier (death and decay)	_ nature absorbs what was
212. Which of the following books at identical with Brahman?	
A. Ramayana B. Bha C. Tulasi Ramayana D. Ved	
213. The Gods, Men and nature form	
214. The interconnectedness of all li	fe and all creatures is affirmed
by the	tures D. Consitis
A. Vedas B. Upanishads C. scrip 215. Animals, in the are i	
vision)	·
216. Animals like and	occupy important
places in the spectrum of God (Mo	
217. All forms including plants and a as (Jivas)	nimal are manifestation of God
218. Animals are manifestations of g evolution compared to	
219. Animals occupy important place (spectrum)	

236. In which decade did most	conversions to the Christianity
happen?	
A. 1950s B.1960s C. 1980	
	gan to cut down sacred groves to
bring the land under	(cultivation)
Plants and Animals n	ot resources but living beings
-He	enry Lamb
	ve believed that man was created in
God's image	
a) Eastern b) Northern	
	a,plague upon ourselves
and upon the Earth	N - 11 - 5 - 1
	c) Disease d) All of these
	gressed usingand animals as
resources to meet the needs of	
a) Trees b) River c) Herbs	-
huge changes in the	nvironmental paradigm is effecting
a) Europe b) West c) United	 States d) None
	ly ancient model that is in a living form
in the world	Ty different moder that is in a niving form
	c) Contemporary d) Ancient
243. This new,view of	the world has permeated our schools
for more than a generation.	•
a) Refined b) Literate	c) Enlightened d) Reasonable
Animals and Birds	s part of Environment
244 and	are the part of nature and environ-
ment (Animals, Birds)	
245. In which Veda have the ani	mals and birds been classified in three
groups?	
A. Sama Veda B. Rig Veda C. Y	-
	nals like birds, forest animals and ani-
mals in	habitatian B. Carabaral
A. Civilized B. Flesh C. Human	
	ery living creature has its own
A. Jungle B. Nature C. Macroco	
and (S a	the Vedic texts that animals should be
and (3	are, meaning)

249. Vedic lexts say, domestic animals, as well as wild animals along			
with human beings should live in A. Friendship B. Peace C. Union D. Accord			
250. Vedic Texts say, domestic animals, as well as wild animals along			
with humans should live under the control of certain like			
Rudra, Pushan etc			
A. Immortal B. Idol C. Deities D. Animals			
Environment CompatibleAncient Philosophy			
251. The earth is whenever people use the earth, whether			
for ploughing or for constructing a house			
a) Blame b) Esteem c) Worshipped d) Chant			
252. Earth has 18% world's population of			
a) Species b) Forest c) Cattle d) None of these			
253. Earth has a fourth of its area covered by			
a) Forest b) Humans c) Cattle d) Species			
254. Earth has a world's recorded species			
a) 10% b) 8% c) 18% d) 17%			
255of Indians vegetarians are the largest vegetarian			
population in the world.			
a) 30% b) 28% c) 41 % d) 42%			
256. Vegetarianism is the biggest sustainers of a) Nature b) Environment c) Life d) Years			
257. According to a 2006initiative, the livestock industry is			
one of the largest contributors to environmental degradation world-			
wide			
a) United Nations b) United Kingdom			
c) Canada d) Europe			
Excessive meat eating damages			
environment ecology and global, climate			
258. The has dubbed beef as a 'climate harmful meat'.			
A. United Nations Environment Programme			
B. United Nations Development Programme			
C. United Nations Economic and Social Council			
D. United Nations Population Fund			
259. On an average every hamburger results in of			
carbon emissions to the atmosphere.			
A. 5 Kgs B. 3 kgs C. 6 Kgs D. 4kgs			

260	is unfortunately a highly energy intensive exercise.
	A. Beef Production B. Meat production
	C. Livestock Production D. Pork production
261	. Meat eaters and beef eaters are the most unfriendly to the
	global environment, reports the United Nations body,
	A. Food and Agriculture Organisation
	B. Centre for Food Safety and Applied Nutrition
	C. Food Safety and Inspection Service
	D. Ministry for Health, Welfare and Family Affairs
	is one of the leading culprits for climate changes.
	A. Meat production B. Livestock Production
	C. Beef Production D. Pork production
	is the devil or the 'shaitan' of the meat production industry. A. Livestock B. Pork C. Meat D. Beaf
	. The lynching of a on the suspicion that he
	consumed beef can never be justified in any society.
	A. Animals B. Man C. Human D. Living beings
265	. What will reduce the global carbon footprint on earth far more
	than avoiding use of cars by giving up?
	A. Meat B. Beef C. Pork D. Livestock
266	. The numbers closely contributes more towards
	global warming than does the transport sector that result in
	changing the climate.
	A. Meat production B. Livestock Production
	C. Beef Production D. Pork production
267	. The livestock sector is responsible for of the global
	greenhouse gas.
	A. 12% B. 15% C. 17% D. 18%
268	. The livestock sector is responsible global greenhouse gas
	emissions as compared to the transport sectors
	A. 12% B. 15% C. 17% D. 18%
269	. In which study, the FAO concludes that "the livestock sector
	is major role and its contributions to climate change than
	transport"?
	A. Effects of human activity on the biophysical environment
	B. Livestock's Long Shadow- Environmental Issues and Options
	C. An invaluable Environmental Management Tool
	D. Bigeoclimate Zones and Vegetation Types.

270. Most recently who expressed that "Earth lovers are voicing
their concern and shaming meat eaters"?
A. Pierre Jacquet B. Francois Gemenne
C. Frederic Mion D. Laurence Tubiana
271. The charismatic Ambassador for Climate Change
Negotiations for the big climate summit in Paris.
A. Indian B. Russian C. French D. United Nations
272. Who said this "This over consumption of meat is really killing
many things there has to be a campaign consumers should stop
that".
A. Indian Ambassador C. French Ambassador D. United Nations Ambassador
C. French Ambassador D. United Nations Ambassador
273. According to a 2012 estimate by Ministry of, India
is home to 512 million livestock.
A. Food Processing B. Agriculture C. Environment D. Farmers
274. Out of 512 million livestock of India, cows and buffaloes
together account for million animals. a. 222 B. 112 C. 111 D.121
275. Most of the animals in India are not reared for slaughtering,
but prized for and
A. Milk and Ploughing B. Milk and Manure
C. Manure and ploughing D. Transport and ploughing
276 estimates that in 2012 the world was home to 1.43
billion cattle.
A. UNDP B. UNEP C. UNFP D. UNO
277. Who are highly environments friendly when measured on the
scale of meat eating and livestock numbers?
A. United Nations B. Indians C. Europeans D. Americans
278. UNEP finds that on an average Indians consume only
grams of meat per person per day.
A. 11 B. 10 C. 12 D. 13
279. Average consume of meat by Indians is almost
lower than the global average of 115 grams.
A. 10 times B. 20 times C. 15 times D. 25 times
280. In comparison, the US leads with over grams of
meat being eaten per person per day.
A. 320 B. 321 C. 322 D. 312
281. On an average a meat eating contributes more to
global warming.
A. American B. Indians C. China D. United Nation

282 contributes 25 times more as compared to a non-
vegetarian Indian.
A. Indians B. China C. United nations D. American
283. Who says the country produced 5.9 million tonnes of meat?
A. Department of Animal Husbandry, Dairying and Fisheries
B. Department of Food processing
C. Department of Agriculture
D. Department of Environmental issue
284 contribution to the total meat production is about half with less than 5 per cent of the meat coming from beef.
A. Mutton B. Pork C. Poultry D. Prawn
285. In, the world produced 278 million tonnes of meat
A. 2003 B. 2006 C. 2009 D.2012
286. India accounts for just about per cent of the world's
meat production.
A. 1% B. 2% C. 20% D. 10%
287 provide the vital protein and nutrients needed for
proper human development.
A. Milk B. Vegetables C. Meat D. Beef
288 is a healthy substitute. A. Milk B. Vegetables C. Meat D. Beef
289 Production on an average requires 28 times more
land.
A. Meat B. Beef C. Pork D. Vegetables
290. Production causes 11 times more global warming as compared
to other
A. Food material B. Milk product C. Meat D. Livestock
291. Who published in the Proceedings of the National Academy of
Sciences?
A. University of Pennsylvania in US
B. University of Illinois at Urbana–Champaign in US C. University of Maryland, College Park in US
D. Yale University in US
292. In which concluded that "minimising beef consumption
mitigates the environmental costs of diet most effectively"?
A. National Academy of Sciences
B. National Academy of Art
C. National Academy of Engineering
D. National Academy of Medical Sciences

293 says that "the biggest intervention people could
make towards reducing their carbon foot prints would not be to
abandon cars, but to eat significantly less red meat".
A. Pierre Jacquet B. Francois Gemenne
C. Frederic Mion D. Tim Benton
294. Beef production is also bad for conservation.
A. Air B. Environment C. Water D. Soil
295. Cattle rearing for beef require almost times more
conservation.
A. 5 B. 10 C.15 D. 20
296 Production uses three times less as compared to
beef ranching.
A. Pork B. Cattle C. Rice D. Wheat
297. Cattle also emit a highly potent climate changing gas called
A. Nitrogen B. hydro chlorofluoro carbon
C. Carbon di oxide D. Methane
298. which is inflammable gas is produced in the guts of
cattle by the bacteria.
A. Ethylene Gas B. Methane Gas
C. Swamp gas D. Marsh Gas
299. Methane is times more potent than carbon di-
oxide in causing global warming.
A. 20 B. 21 C. 22 D. 23
300. Consumption of 1 kg domestic beef in a household represents
automobile use of a distance of kilometres.
A. 161 B.116 C. 160 D. 106
301. Car travelling all the way from would be the same
amount of global climate change done by consuming just 1 kg of
beef.
A. New Delhi to Agra B. Tamilnadu to Chennai
C. Karnataka to Bangalore D. Tamilnadu to Kerala
302. No wonder beef is considered highly environmentally
A. Friendly B. Un friendly C. Distant D. Far
303. What are considered as savings bank?
A. Beef B. Meat C. Livestock D. Milk
304 is life-saving kit to overcome the harsh environment.
A. Meat B. Milk C. Beef D. Livestock
ALTHOR DEVINE C. DCCI DELIVEROR

305.	and
	and A. Modish and Trendy B. Chic and Fashionable
	C. Chichi and Modern D. Voguish and Dashy
306.	Who estimates that by 2050 the global meat consumption will rise?
	A. UNO B. FAO C. UNEP D. UNFP
307.	The global meat consumption will rise to million tonnes.
	A. 460 B. 360 C. 630 D. 640
308.	UNEP recommends a shift to 'less harmful' meats.
nr	A. Environment B. Climate C. Pollution D. Food rocessing
	Healthy eating is not just important for the but for
	e planet as whole.
	A. Man B. Humans C. Animals D. Individuals
India	a Has A Great Responsibility To Save The World From
man	Environmental And Ecological Destruction
210	
310.	India has a to save the world from environmental and ecological destruction (great responsibility)
	has caused discomfort for animals and destruction
of	nature (Modern life style)
312.	India is the only ancient which retained its ancient
W	isdom in practical life (civilization)
313.	Indians still worship (Trees)
314.	These worships were found by and
fo	llowed by our forefathers. (rishis and saints)
	There is still simplicity in the life style and habits of
	India. (villagers)
316.	Indians turn into like repairing and
	sing things and not throwing old things. (waste, wealth)
	Which products are primarily still being used by Indians for
tn	eir day-to-day needs? A. Habitual product B. Anticipated products
	C. natural products D. unnatural product
210	India has its which protects environment is in
	urrent practice. (ancient wisdom)
319.	
515.	A. Westerly B. Western lifestyle C. Traditional life D. Eastern
	Ancient Indians regard the entire creation as a manifestation of (divinity)

	ne envi ne day (cu		idly habits are not	the ones ir
	, ,	•	st be made aware	of the scientific basis
				tions and samskarams
323.	Samskara	ams will enab	le young Indians to	o tell the world
			he basis for the fu	ture world (Indian
		cal thoughts)		
				e among the three
	-	•		oal leader. (National
li I	ntelligence	Council of A	merica)	
	P	rayers in Ve	das to Sustain E	nvironment
325.	In the	Veda	there is prayer whi	ch draws attention to
tl	he ecologic	al balance of t	hese elements.	
			c) Rig	
326.			h to protect us and	
			eply c) Offer	
327.	We pray t	to earth to give	e us the	as well as the
	owing rive		ountains d) Pla	ntc
				d potency on whom
		ops grow and a		a potency on whom
			c) Land d) Her l	bs
	•			s us bythe
		per rainfall at		,
а) Breed	b) Fertilizing	c) Compost	d) Treat
330.	We have	lot of reveren	ce to our c) Plants	
				nce of plants & herbs
		t to their medi		IV v. t
			c) Rig	
			any hymns to the w	
			mritis c) Vedas	
333.	\ \/\/ator	is similarly c	onsidered to be the c) Nature	e basic life giver
ээ 4 .	Ally Killu Ahhorred	or disrespect t	co air isetest c) Loathe	 d) Cherish
				e heavens give us
			c) Distress	
				-

Creation of Nature

336.		provid	es the c	onnectiv	ity to the	Earth on one hand
ar	id the thre					
						d) Forest
337.						
	a) Space					
338.						
	a) First	b) Fourt	h	c) Seco	nd	d) Third
339.						
	a) Air		b) Fire	c) W	ater ater	d) Space
340.	Fire is the	ز	man	ifestatio	n.	
	a) Second	t	b) Sixth	c) Third	d d)Fifth	
341.	Earth is the	he	n	nanifesta	ation	
	a) First	b) Fourt	h	c) Third	d) Fifth	
342.						
a)	Oshadhay	yo Annan	n	b) Vay	ur Agnihi	
	Akashat V	•				
343.	From the	Annaath	Purush	aha		came
	Vegetatio					
344.	Inhaling,	exhaling,	running	g, walkin	ig, contra	ction are qualities of
a)	Adyah Pru	uthivi		b) Vayı	ı Bhuta	
	Annaath F					
				are quali	ities of Ag	gni Bhuta, the
	ement in t					
a)	Fire	b) Watei	r	c) Air	d) None	of these
						iva are qualities
	· 					
	Akashat V				nnam	
c)	Agnir Apa	ha	d) Aapa	Bhuta.		
347.	Bones, fle	esh, veins	, and ar	teries ar	e qualitie	es of Prithivi Bhuta, the
	Eler	ment in t	he body			
a)	Water	b) Air		c) Earth	า	d) Fire
		CONC	- D O-		. [/a // a c	
		CONC	EPI OF	FIHER	R ['AKAS	SHA']
348.	There is a	relation	betwee	n	and	sound.
A.	Cosmos	B. Ether	c. Ce	elestial	D. Parac	lise
349.	The soun	d	mov	e in sky	at variou	s frequencies
	Air B. B					•

350. Scientists could see the sky which exists only in the of earth (vicinity)
351 throws light on two types of ether i.e: one inside the body and the other outside the bodyA. Vedas B. Scriptures C. Taittirya Upanishad D. Epics
352. The inside the body is regarded as the seat of mind A. Air B. Ether C. Blood D. Nerves
353. Which Veda says "Do not destroy anything of the sky and do not pollute the sky"?A. Atharva Veda B. Rig Veda C. Yajur Veda D. Sama Veda
354. Sun shines in Dyuloka and we get light from A. Moon B. Stars C. Sun D. Sky.
355. The sunrays strengthen our and are essential for our life
A. Skin B. Inner Power C. Mind D. Central power 356. Importance and care for ether is clearly mentioned in the (Vedic verses)
CONCEPT OF AIR ['VAYU']
357. The principal deity of Antariksha the intermediate space is (Vayu)
358. Jaiminiya Brahmana quotes,' Vayu brightens in(Antariksha)
359. Yajur Veda says,' Vayu has penetrating A. Darkness B. Illumination C. Brightness D. Shine
360. Sun and rest of universe is woven in the of Vayu A. Twist B. String C. Rope D. Cord
361. Apparent meaning of Vayu is (Air)
362. Which Veda says the universe is bound by the string, that is
Vayu.'?
A. Atharva Veda B. Rig Veda C. Yajur Veda D. Sama Veda
363. The Vedic seers knew the importance of for life
A. Luxuries B. Money C. Wind D. Air.
364. The Vedic seers understood all about air in the and
A. Sky, Pressure C. Heavens, Mortal part B. Atmosphere, Body D. Troposphere, Frame
365. The Taittiriya Upanishad throws light on types of wind inside the body
A. Six B. Ten C. Five D. Two

366.	A. Scriptures B. Epics C. Smrithi D. Vedic verse .
367.	Rig Veda mentions "O Air! You are our the protector" A. Mother B. Father C. Life D. Breath
368.	Air has Values
	A. Healing B. Salutary C. Medicinal D. Curing
369.	Medicated air is the international physician that pollu
	on and imparts health
	A. Cancel B. Annihilates C. Approve D. Quell
370.	are full of medicated air consisting of herbal elements
A.	Steep area B. Flat area C. Hilly areas D. Elevated areas
371.	The air is the of all deities
	A. Genius B. Soul C. Heart C. Spirit
372.	Air exists in all as life It can move everywhere and we
	nnot see it.
	A. Wheeze B. Ozone C. Breath D. Inspiration
373.	emphasized that the unpolluted, pure air is source of
go	ood health
	A. Modern people B. Venerable C. Age old D. Ancient Indians .
	Air pollution causes many diseases discovered in
	oout 200 BCE (Caraka)
375.	The polluted air, Caraka says is mixed with (Bad elements)
376.	The polluted air, Caraka says is of season, coming at
th	e same time from all directions, bad smelling, full of dirt.
	A. Unrelated B.Immaterial C. uncharacteristic D. Accidental
	CONCEPT OF THE EARTH ['PRITHVI']
377.	The concept of the form of the earth in the Rig-Veda is
m	ost
	A. Ridiculous B. Awful C. Fascinating D. Gripping
	There is one small hymn in Rig Veda addressed to
	hile there are hymns addressed to Dyavaprithivi
-	rithivi, six)
	Prithivi is considered the and Dyau is considered
	e in the Vedas (Mother, Father)
	One of the most beautiful verse of the Rig-veda says, Heaven is
	y brother atmosphere is my and the great
ea	rth is my (Father, navel, mother)

and are parents in union while separately
called as father and mother
A. Paradise, Planet B. Earth, Stars
A. Paradise, Planet B. Earth, Stars C. Heaven, Earth D. Heaven, Planet
382. Earth is described as a goddess in Veda
A. Atharva B. Rig Veda C. Yajur Veda D. Sama Veda
383. In which Veda is the earth described in one hymn called Bhoom-
isukta or Prithvisuktha of 63 verses?
A. Yajur Veda B. Atharva Veda C. Sama Veda D. Rig Veda
384. Prithivisukta indicates the consciousness of Vedic
seers
A. Coincidental B. Amplified C. Environmental D. Nature
•
385. The seers appear to have advanced understanding of the earth
through this hymn. She is called for containing all
(Vasudha, wealth)
386. There are several many instances of Agni being invoked in
the
A. Upanishads B. Vedas C. Smrithi D. Epics
387. The earth is fully responsible for and
A. Inflation, Growth B. Luxury, Fortune
C. Food, Prosperity D. Wealth, Inflations
388. The immortal heart of earth is in the highest, Her
heart is
A. Vault, Moon B. Firmament, Sun C. Lid, Stars D. Vault, Planet
389. The hymn says "Earth is one enveloped by the sky or space and
causing the force of "
A. Planetary motion B. Enticement C. Gravitation D. Fascination
390. The Earth is described as the field by the Vedic hymn.
A. Thermic B. Lukewarm C. Sweltering D. Geothermal.
391. The earth is described then as being present in the middle of the
and as one having magical movements by the hymn(-
oceans)
392. The hymn talks about different which are generated
from the form of the earth
A. Power B. Energies C. Strength D. Force
393. The Earth is invested with and respected as mother
A. Holiness B. Celestial C. Divinity D. Higher Power
394. In which Veda have the seers said that "The earth is my mother
and I am Her son"?
A. Sama Veda B. Atharva Veda C. Yajur Veda D. Rig Veda
A. Sama veua D. Atharva veua C. Yajur veua D. Rig veua

and not by (Men, Nature)
Bhoomi Vandanam – in other ancient traditions
396. Images of representing mother earth, and Mother
Nature, are timeless A. Mother B. Matron C. Women D. Man
397. Ingoddesses were worshipped for
their association with fertility and agricultural bounty.
A. Primitive B. Prehistoric times
C. Ancient times D. Modern times
398 held dominion over aspects of Incan, Algonqui-
an, Greek, Indian religions.
A. God B. Saints C. Priestesses D. Divine
399. The word nature comes from the Latin word (Natura)
meaning birth or character
400. In Greek mythology, the daughter of Demeter, god-
dess of the harvest, was abducted by Hades and taken to the under-
world as his queen (Persephone)
401. Demeter was so distraught that no would grow and the "entire human race have perished of cruel, biting hunger if Zeus
does not rescue her"
A. Plants B. Fruits C. Crops D. Vegetable
402. In Inca mythology, Mama Pacha or Pachamama is a fertility god-
dess who presides over and
dess who presides over and A. Accumalation, Harvest C. Implant, Collection D. Scatter, Farm
C. Implant, Collection D. Scatter, Farm
403. In Inca Mythology, Pachamama is usually translated as "Mother
Earth" ,but a more literal translation would be (Mother
Universe)
404. In Inca Mythology , Pachamama and her husband, Inti are the
most deities
A. Big hearted B. Helpful C. Cruel D. Benevolent .
405. Pachamama and her husband, Inti are worshiped in parts of the ranges (Andean mountain)
406. In the Southeast Asian Indochina countries of Cambodia Laos and
Thailand earth is personified as (Phra Mae Thorani)
407 did not see Nature as inclusive of everything, but
thought she had been created by God.
A. Hindu Thinkers B. Buddhist Thinkers C. Laine
C. Jains D. Medieval Christian Thinkers

Sustain Environment

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408. In the Malay Archipelago, earth's role is filled by Dewi Sri
Thein_the East Indies
A. Rice mother B. Mother Nature C. Mother earth D. Earth mother
409. The Earth Mother is a motif that apeears in many A. Stories B. Tradition C. Mythologies D. Convictions
410. The Earth Mother is a goddess who embodifies the
fertil
earth and typically the mother of the deties
A. Plentiful B. Fertile C. Rich D. Bearing
411. In which continent, contemparory Indian people of Andes such as
the Quechua and Azmara belive in the Mother earth
A. North America B. South America c. England D. Australia
412. Andean migrants carried thecult to cities and many
other extra Andean places including metropolitan Buenos Aires.
A. Parvathi B. Lakshmi C. Pachamama D. Bharath mata
413. In mythology Ki is the earth goddess_
A. Hinduism B. Sumerian C. Buddhist D. Jainism
414. Inorthography earth has the syllabic values gi, ge, qi, qe
(Akkadian)
415. In Akkadian orthography, some scholars identify Gi with
the earth and fertility mother goddess(Ninhursag)
416. An earth and fertility deity Geb was male and he was
considered as father of all snakes
A. Tibetian B. Egyptian C. Chinese D. Japanese
417. The number of goddesses who are depicted as impor-
tant mother deities is numerous because of regional cults of many
very early cultures. A. Buddhist B. Chinese C. Egyptian D. Japanese
418. In mythology the earth is personified as Joro, and
Fiorgynn
A. Sumerian B. Japanese C. Norse D. Egyptian
419. Inpaganism the earth goddess is referred to as Nertha
Theirish celts worshipped Danu
A. Chinese B. Germanic C. Zoroastrian D. Japanese
420. In Lithuanian mzthology Gaia Zem Lithuanian for earth is daugh-
ter of and
A. Stars, Moon B. Plants, Sun C. Sun, Moon D. Nature, Sky
421. In cultures the Earth mother was known under as
many names such as M ori

A. Indian B. Pacific C. Buddhist D. Chinese
422. Ancient cultures referred to Mother Earth as Tonan-
tizn Tlalli that means revered Mother Earth
A. Mexican B. Japanese C. Chinese D. Indian
423. Only in late Egyptian mythology does the reverse seem true. Geb
is the earth
A. Mother B. Partner C. Father D. Brother
424. The of earth from which life life sprang was Mut, the
great goddess of Egypt
A. Mountain B. Pile C. Hillock D. Mound
425. Inthe earth goddess is called the planetary logos of
earth
A. Philosophy B. Theosophy C. Mythology D. Culture
426. In Wicca the earth goddess is sometime called
A. Mother B. Father C. Gaia D. Nature
427. In Native American Indian storytelling The Earth Goddess" is
one of several creator based titles and name given to the spider
6.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10
A. Mother B. Grand mother C. Father D. Grand father
428. In ancientNaukea was a mother goddess of lactation_
A. Indian B. Sumerian C. Hawaii D. Mexican
Bhoomi Suktam [Bhoomi Vandanam] In Atharva Veda
429. The being the core of natural environment the safety of
the earth is the security of the people and all living beings
A. Nature B. Planet C. Earth D. Star
430. In the ancient tradition and Vedic literature the rishis have cele-
brated the earth and revered her as (The Mother)
431. According to the Hindu concept, the earth is the basis of life and,
is considered as
A. Irreverent B. Heavenly C. Divine D. Spiritual
432 always occupies a special place among the Gods
A. Nature B. Planets C. Earth D. Sun
433. The earth is an object of and not of exploitation
A. Ritual B. Nature C. Worship D. Respect
434. Investigation of the earth is of the same nature as person-
al as Earth is an object of awe and not of curiosity.
A. Contemplation BIntrospection C. Reflection D. Rumination
435 is from the earth and part of the earth.

436. The worshipping of the earth is not adoration of a creature as an
absolute, that is, it is not A. Idolism B. Idolatry C. Adoration D. Worship
·
437. The relationship between the human and the earth is one of
A. Friendship B. Cooperation C. Partnership D. Combination
438. Prayer to the Earth in the Atharva Veda, after describing the ori-
gins of earth, follows it up with a description (Geograph-
ical)
439. The Earth is the place of people
A. Establishment B. Lodging C. Dump D. Dwelling .
440. Earth is the conveyer of the Universal Fire, and the
place where men offer ritual sacrifices (Agni)
441. Who is a cosmic giant, a cosmic power, the protector and the
inscrutable judge?
A. Planet B. Star C. Earth D. Universe
442. In the Hindu tradition there is an underlying of all life,
the world and all that exists.
A. Peace B. Integrity C. Harmony D. Unity
443. The affirm the interconnectedness of all life and all
creatures.
A. Epics B. Vedas C. Scriptures D. Upanishads
444. Which of the following affirms that atman is ultimately identical
with Brahman?
A. Valmiki Ramayana B. Bhagavad Gita C. Mahabaratha D. Tulasi
Ramayana
is a religion in which the human is conceived as part
and parcel of nature
A. Jainism B. Buddhism C. Hinduism D. Zoroastrian
446. The natural phenomena are from a source
A. Unsacred B. Divine C. Beautiful D. Glorious
447. Thus, every natural force and phenomenon is considered to be
A. Soul B. Creator C. Demon D. God
448. is not on the earth to conquer, dominate, but to be an
integral part of the organic whole
A. Animal B. Human being C. Mortal D. Plants
A. A

Ganga Vandanam

Pollution of the Sacred Ganga

449		The	is the I	argest rive	r in India	with an ex	traordinary			
	re	ligious imp	portance for H	indus						
	a)	Yamuna	b) Ganges	c) Brah	maputra	d) Indus				
450		Along Ga	nges banks are	some of t	he world	s oldest in	habited			
	pl	aces like _	and F	Patna						
			t b) Ma		Ghat					
			d) Ke							
451		Ganga pr	ovides water to	o about 40	% of India	ı's populati	on in			
		sta	ates with an es	timation o	f 500 mill	ion people				
	a)	11	b) 20	c) 12		d) 15				
452		Today, ga	nga is fifth mo	st	_river in t	he world				
	a)	Purify	b) Divine	:) Honor	d) Pollut	ed				
453		The Gang	ges river basin i	is one of th	ne most _	and	densely			
	pc	pulated re	egions in the w	orld/						
	a)	Sparse	b) Fertile	c) Lush	d) Plenti	ful				
454		A large p	roportion of th	e waste in	the Gang	es is from t	this			
			through							
			b) calm c) Do							
455		Industria	l effluents are a	about	_of the to	otal volume	e of effluent			
	re	aching the	•							
			b) 12%							
456		Dams are	built in	durin	g the Briti	sh coloniza	ation of			
		dia								
			b) 1850							
457			dam has le		of the Ga	inges by gr	eatly			
			the flow of the							
			ar b) Me							
458			rnment of Indi	a has planı	ned about		dams on			
		e Ganges								
			b) 300	•		•				
459		_	ga is polluted b			en more as				
rather than living bodies- like humans										
			b) Divine							
460. Even though there are efforts to remove the pollution of the										
Ganga, the real change can come only if the consciousness that										
	ri۱	ers and w	raters are							
	a)	Secular	b) Material	c) Hollo	owed	d) Sacred				

Water and Rivers as sacred in ancient Indian Traditions

		ne immei	and the second second		has been an object of worship fro		
		ile illillici	morial				
	a)	Trees	b) Animals	c) water	d) P	lants	
462		Most Ind	dian rivers are	usually believe	ed to be		_of
		oddesses					
	a)	Reality	b) Concealmo	ent c) Mark	d) Manife	estations	;
463		Rivers ha	ave been given	a divine statu	s and have	been wo	rshipped
	sir	nce	times.				
	a)	Historic	b) Modern	c) Ancient	t d) C	urrent	
464			plays a v	ital role in hol	y rituals		
			b) Water			lders	
465		Water _	our	body and hen	ce, symbol	izes purif	ication.
	a)	Pollute	b) Rinse	c) Cleanse	es d) R	estore	
466).		are one su	ich gift, which	is consider	ed highly	/ sacred
	a)	Mountai	ns b) R i	ivers c) Tree:	s d) A	nimals	
467	' .		in might s	urpasses all th	e streams	that flow	
	a)	Yamuna	b) Ganga	c) Sindhu	d) N	Iarmada	
468	3.	Sindhu r	iver is				
	a)	Masculir	ne b) Fe	eminine c	Neutral	d) None	e of these
			rior- king leads				
		her rivers					
	a)	Ganga	b) Sindhu	c) Krishna	d) T	apti	
470).	The	Veda s	says sindhu is i	rich in gold,	, nobly fa	shioned,
			le wealth		-	-	
	a)	Atharva	b) Sama	c) Rig	d) Y	ajur	

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IMCTF Pledge

I revere "Trees" as symbol of Forests I revere "Snakes" as symbol of Wild Life I revere "Cows" as symbol of all Living Beings I revere "Ganga" as symbol of Nature I revere "Mother Earth" as Symbol of Environment I revere my "Parents" as symbol of Human Values I revere my "Teachers" as symbol of Learning I revere "Women" as symbol of Motherhood I revere "War Heroes" as symbol of Bharat





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