

# Need and Importance of Environmental Education amidst the Changing patterns of Environment

Dr. Suman

Lecturer, Govt. (N-W) DIET - Pitampura, N. Delhi

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## ABSTRACT

Environmental education is depending on so numerous independent variables. Experimenter has taken some independent variable in exploration independent variables those are affecting environmental mindfulness. This is period of globalization, liberalization and privatization. In formal education, tutoring of environmental education depends not only on class and other installations handed to pupil but also quality of preceptors in terms of knowledge, mindfulness, station and chops relating to terrain among scholars. Urban and pastoral pupil preceptors are preceptors of unborn generation. So they should be apprehensive of environmental aspects only also they can make unborn generation apprehensive about environmental problems and their results. If schoolteacher is technically apprehensive also he can give its benefits to scholars also. This study is necessary to explore utmost effective path way for developing knowledge, platform and interest towards environmental education.

## 1. Introduction

Earth is the only planet on which life is found and it has limited natural resources. There is need to use these resources in sustainable way. If at this time we don't give attention to environmental problems then one day our upcoming generation's future will go in darkness. Environment has been shown dangerous picture of future. Now it's need of hour that everyone should aware of environmental problems. The environment is formed by Light, humidity, wind, temperature, soil, organisms, adulterants, germicides, fungicides Radio-isotopes and men which surrounds us. Environment includes small microorganism to every cell of living being. Environment is made of living and non living effects. Non living thing like light, humidity, temperature, wind etc. makes physical terrain and living effects makes biotic terrain. Environment is complex of numerous factors which interact not only with the organism but among themselves. Terrain of earth can be divided into four services- Atmosphere, Lithosphere, Hydrosphere and Biosphere. They interact with each other. Moment's society is specialized. A pupil can not know the world without internet. Social spots are getting integral part of their life. Utmost of scholars are using social spots for chatting, videotape talking, news and for participating filmland. According to Bozkurt Aras, The social spots provides occasion for communication and commerce especially for distance education scholars who are separated from preceptors, learning coffers and other scholars in terms of time and space [1].

Preceptors in advanced education have begun exploring indispensable means of instruction including social communication tools designed for easy use, educational freedom and constant online conversations. The uses of social networks have increased exponentially in recent times although there's some contestation over the bedded nature of social media in education setting. As review of literature most accessible social point is face book and it's getting important

mean to develop knowledge and mindfulness about terrain. After considering outlook of moment's society and adding terrain problems, interest developed in experimenter's mind to do exploration on this content.

The atmosphere is gassy mantle around the lithosphere and hydrosphere and biosphere. It constitutes feasts similar as nitrogen, oxygen, argon, carbon dioxide, helium, neon xenon, ozone and krypton in definite conditions. In addition to this, atmosphere also includes water vapors, dust patches, artificial feasts, pollen and several other substances that beget environmental declination. The lithosphere is substantially made up of solid factors and constitutes the rocky substances. Hydrosphere includes the liquid water, swash water, ocean and ponds. Biosphere includes shops, creatures and all other organism [2].

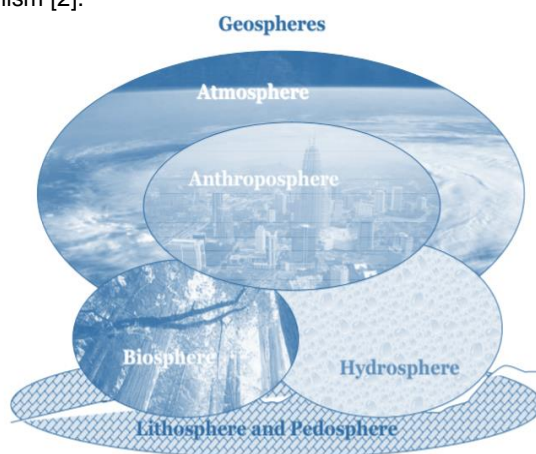


Figure 1: Spheres of Environment

## 2. Changing patterns of Environment

All the effects that compass us and affect us directly and laterally is called terrain, Environment can be divided into two corridor :

- **Natural Environment**
- **Man made Environment**

In Natural Terrain we include biotic element and A biotic element. Biotic rudiments include Plant Kingdom; Micro area, and Beast area, A biotic rudiments include lithosphere, atmosphere, and hydrosphere. In manmade terrain we include religious terrain, spiritual terrain, philosophical terrain, political terrain. Environment and man are related to each other. Man can not live without terrain. Indeed we can not imagine humanity actuality without terrain. Before 19th century man had veritably important precious relationship with terrain. Trees were related with religion Tulsi, Peepal, Banyan, and Banana trees were worshiped by every humanity. It was said that god lives in trees. People used to encourage tree colony relating it with religion. Chipko movement was grounded on the saving trees. In this movement thousands of people immolate their life for saving the trees. Rivers were also worshiped in form of god. It was say that our all sins will washed down after taking bath in Ganga. But moment it's defiled in this extend that nothing can drink its water. Yamuna River is also defiled due to plastic diligence in Delhi. After 19th century man third eye of rapacity opened and he started demeaning the terrain. Scientific and technological revolution has redounded drastic change in the terrain leading to environmental declination and extremity. The speed and nature ( particularly man convinced change) in recent times have brought about a series of environmental problems of global magnitude including population explosion, reduction of energy coffers and application, the provision of food inventories, exploitation of raw accoutrements, global warming, acid rain, ozone subcaste reduction, air pollution due to increase in number of motorcars diligence. Agriculture fields are being changed in marketable land like houses, plant, and diligence. Mountains and plains are being defiled due to deforestation because of this so numerous precious wildlife species are getting defunct. As a result ecological balance is disturbing in the terrain. Main reasons for below problem are entourages [3]-

(i) Air pollution- Source of air pollution are burning of fossil energies in large amounts from spurt aircraft, adding figures of vehicles, deforestation and diligence. According to report of world health association air pollution in 2012 caused the death of around 7 million people worldwide. India has 14 out of 15 most weakened metropolises in the world in term of P M (particulate matter) attention. Kanpur is the most weakened megacity [4].

(ii) Water pollution-Water bodies like swash, lake, abysses, aquifer and groundwater are defiled with wide range of poisonous and pathogens, water becomes weakened. This water may beget trouble to mortal health. The largest source of water pollution in India is undressed sewage, husbandry runoff and limited small scale diligence. Leakage of petroleum from huge vessels and canvas tankers into the ocean, causes canvas copters which spread fleetly over water and spell disaster to marine life and to mortal depending on marine coffers. Further than 500 million people live along the Ganga River. An estimated persons ritually bath daily in the swash which is considered holy by Hindus. Ganga swash pollution is major health threat. National Ganga program, an intertwined

charge, was approved as flagship program by government in June 2016 with a budget disbursement of Rs crore to negotiate the binary objects of effective abatement of pollution, conservation and revivification of Ganga. Under the design, 8 countries are covered [5].

(iii) Land declination – When the characteristics and quality of soil gets change which negatively affect its fertility is called land declination. As a result of land declination foliage cover come less, changes in climatic conditions do. Main cause of declination is deforestation, ultramodern husbandry practices. Overgrazing, industrialization jilting of solid waste from civic centers and waste accoutrements from mining centers, Saline encrustation of irrigated lands is another illustration of land declination. Help the land from declination; some way can be taken like crop gyration, conformation of crest and crinkle, construction of heads, strip husbandry figure husbandry [6].

(iv) Reduction of coffers – Resource reduction is the consumption of resource at faster than it can replenish. Natural coffers are two types' renewable coffers and non-renewable coffers. The main causes of reduction of natural coffers are overconsumption, Deforestation and destruction of ecosystem leading to loss of biodiversity, mining of minerals and canvas, technological and artificial development, corrosion and population growth in the recent history has redounded in rapid-fire reduction of all kinds of coffers. Timber and soil coffers are getting depleted at a fast rate owing to population pressure. Tropical timbers are depleting at a rate of 2 per annum. It's estimated that the world is losing 7 of top soil per decade. Reduction of coffers is most significant in respect of non renewable mineral and power coffers [7].

(v) Ozone reduction – Ozone is tintless gas which plant in stratosphere. It cover us from dangerous ultraviolet shafts from Sun. From 1970's scientists, environmentalist and world at large noticed the reduction of ozone subcaste. The main reason for reduction of ozone subcaste is the product and emigration of CFC (chlorofluorocarbon). Other substances are HFC (hydro chloro fluoro carbon) and unpredictable organic composites. Similar substances are released by vehicular emigration, by product of artificial process, aerosols and refrigerants. As result of reduction of ozone subcaste U V shafts enters into atmosphere which develops skin cancer, eye cataract, damage of vulnerable system, aging of skin. In 1987 Montreal protocol was formed to save ozone subcaste. It helped in reducing and controlling artificial emigration of CFC. 16 September is declared as ozone day. Our individual trouble is essential in saving the earth's mask and keeps our earth habitable for us and unborn generations [8].

(vi) Acid Rain-Burning of coal, canvas and petroleum adds sulphur dioxide to the atmosphere. Lead, carbon monoxide and nitrogen dioxide are added to the atmosphere from machine exhaust. These feasts affect in acid rain which affects submarine life, illustration acid rain in artificial regions of Europe and North America [9].

(vii) Global Warming – Global warming a gradational increase in the average temperature of Earth face and its

abysses. Scientific agreement on climate change that average 0.4 & 0.8 degree c of the Earth has risen over the last hundred times. Primary sources of global warming are burning of fossil energies, land clearing, husbandry and other mortal conditioning that increased the volume of CO<sub>2</sub> and other green house feasts passed over the once 50 times. scientist from (IPCC) Intergovernmental Panel On Climate change have lately prognosticated that average global temperature could increase between 1.4 & 5.8 degree c by the time 2100. Changes performing from global warming may include rising ocean situations due to melting of polar ice caps, increase in circumstance and inflexibility of storms [10,11].

(viii) Radioactive pollution – Radioactive pollution can be defined as the release of radioactive substances or high-energy patches into the air, water, or earth as a result of mortal exertion, either by accident or by design. The sources of similar waste include [12]

- Nuclear armament testing
- The nuclear energy cycle, including the mining, separation,
- product of nuclear accoutrements for use in nuclear power shops or nuclear losers
- Accidental release of radioactive material from nuclear power shops.

### 3. Need of Environmental education

The need for environmental education arises from the fact that environmental hazards created by the rapid-fire pace of development in the world have gone up to intimidating situations, thereby making it delicate for the authorities to handle it on their own. To face such a situation, it's important that mindfulness be created at all situations of community and amongst all situations of druggies. To handle a global problem of similar proportions, a sprinkle of officers and professionals are just not enough. Rather, there's a need to address the problem at grassroots position. The sources from which similar problems arise have to be approached and given the needed quantum of knowledge, which easily explains the need for environmental education. Moving on, the need for environmental education is especially critical in small children who are just beginning to gain mindfulness of their surroundings and nature [13,14].

In fact, experts suggest that similar literacy should indeed start before the academy begins. The need for environmental education in children can be gauged from the fact that similar early literacy helps in shaping the children's values, perspectives and understanding of the terrain. It also helps in tutoring the children about different ways to interact with their terrain. In moment's age when computers, videotape games and academy work dominate a child's routine; it's important every child be given an occasion to learn about and interact with his surroundings, which exactly explains why the need for environmental education is so critical. Regular relations of children with their terrain have proven to ameliorate the children's sense of wonder, imagination and creativity,

piecemeal from furnishing them with as sense of beauty, calmness and intellectual development. In wake of such a critical significance for the need for environmental education especially in small children, experts advise starting early with kiddies at home. Parents can simply achieve similar objects by talking to their kiddies about nature and explaining small effects about their terrain which they might encounter in the routine life. Pupil- preceptors should be apprehensive of all aspects of terrain also they can use it to educate children about terrain [15].

### 4. Significance of Environmental Education

Environmental education is important to raise the curiosity about atmosphere and terrain. To achieve this end on 5th June the whole world celebrates the world terrain day. Environmental education is important as following ways [16,17]

- Earth is the only factory where life is possible in the solar system.
- To cover it from destroying and to save it and to give healthy and happy life to live.
- To convert the carbon dioxide into the oxygen in the atmosphere is possible by trees, shops and foliage only. Oxygen is the air which provides us life.
- To reduce the Carbon dioxide and to maintain the position of oxygen in the atmosphere, it's necessary to educate the people by telling them" what to do and what not to do" The stability of whole nature has been disturbed due to every time's inordinate population growth.
- To control the stability of terrain, it's necessary to control the inordinate growth of population so that we give the unborn generation a methodical terrain.
- Artificial revolution and scientific discoveries have handed luxury appliances which have spread different type of pollution. To control and cover the terrain from this pollution a programmer is to be started.
- These all are possible by environmental education, so the environmental; education is necessary for the time.

### 5. Conclusions

World is getting specialized. People are communicating with each other by easiest and cheapest media i.e. social networking spots. It provides occasion to engage people to do discussion about environmental problems. In moment's globalization the development & uptake of digital tools and social software bringing about massive societal and profitable change in form of information. The environmental knowledge can be good result to break environmental problems. Environmental knowledge and environmental mindfulness have positive correlation. Environmental mindfulness can be developed through environmental knowledge. Media especially social media can contribute veritably important part in developing environmental mindfulness. In present time different kinds of technologies has come.

## References

- [1] Chang, C. H. (2014). *Climate change education: Knowing, doing and being*. Rutledge.
- [2] Simkiss, D. (2015-07-24). "The Millennium Development Goals are Dead; Long Live the Sustainable Development Goals". *Journal of Tropical Pediatrics*. 61 (4): 235–237.
- [3] Wynes, Seth; Nicholas, Kimberly A. (2017). "The climate mitigation gap: education and government recommendations miss the most effective individual actions". *Environmental Research Letters*. 12 (7): 074024.
- [4] Baker, Robert N. (1999). *Carde in the Classroom : Mathematics and Methods Ketchikan*, Alaska : University of Alaska SE.
- [5] Rekha (2006). A Comparative Study of the Effectiveness of Social Inquiry and Gaming Model on Pupil's Achievement and Their Self concept. *Ph.D. Paper in Education*, M.D.U. Rohtak.
- [6] Bal, Nimret (1992): The efficacy of guided discovery and expository teaching strategies on Acquisition, Retention and transfer of writing skills in English among students at +2 stage in relation to intelligence and cognitive style. Ph.D. PAPER, Deptt. of Education, Punjab University, Chandigarh.
- [7] Bapat, M.N. and Nagauja Rao, N.R. (2004), *Environmental Education at primary Level- Why and How? The Primary Teacher NCERT Publications*, New Delhi-16, Vol. XXIX, No.2, pp. 10-19.
- [8] Pruliere, D.L. (1998). The Effects of Picture and Title Advance Organiziers on Second Language Comprehension and Production in French as Measured by a Diction Task and Recall Task. *Dissertation Abstracts International*, 58(10):3866A.
- [9] Santosh Kumar Rout, Sukriti Agarwal (2006). Environmental awareness and environmental attitude of students at high school level. *Edutracks*, Vol. 6, No. 1, pp. 25-26.
- [10] Singh, A. (2009). Relative Efficacy of Advance organizer Model and Inductive Thinking Model of Teaching in Teaching Economics. *EDUTRACKS* Vol.9-No.3, 38-42.
- [11] Pasha. J (2015). Environmental Awareness Among Secondary School Students in Relation to Caste, Father Occupation and Class of Study in Warangal District. *IRJMSH*, Vol- 6 (8), 174-181.
- [12] Coolidge, A., Doner, S., & Robertson, T. (2015). BC Open Textbook Accessibility Toolkit. Retrieved January 9, 2018.
- [13] Henry, S. (2017). Web Content Accessibility Guidelines. Retrieved January 9, 2018.
- [14] Sahu. U, Roy. M, Monika, Rajkiran. (2015). Environmental Awareness Among Undergraduate Students in Rural Area. *IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSRJESTFT)*. Vol-1 (4), 27-32.
- [15] Umer Farooque, T.K. (2008). Role of Games in Making Language Teaching and Learning an Edutaining Experience. *EDUTRACKS*, Vol. 7, No.12, pp.14-15.
- [16] West, C., Farmer, J. and Wolff, P. (2001). *Instructional Design: Implications from the Cognitive Sciences*. Needham Heights. M.A.: Allyn and Bacon. Multimedia Best Practices. University of Texas system: Comments to [g.culp@ca.utexas.edu](mailto:g.culp@ca.utexas.edu).
- [17] Zambre, M.A. (2000). Analytical Study of the Concepts in Physics Prescribed in the Syllabus of Secondary Stage and Use of CAM for Their Effective Teaching. *Ph.D. Thesis in Education*, North Maharashtra University Jalgaon.