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Sub:- ENVIRONMENT STUDIES

Chapter-1 The multidisciplinary Nature of Environmental studies

Q:-1 what do you mean by Environmental studies?

- (i) The word environment is derived from the french word "environ" means Surrounding hence Everything Surrounding us is called Environment.
- (ii) Every Organisms is Surrounded by materials and forces that ^(जीवों) constitute its environment & it is environment from where ^(जीवों) every Organism must derive its requirement.
- (iii) The Environment Creates favourable Conditions for the existence and development of living Organisms.
^(उत्तर)
- (iv) The Survival of any Organism requires a steady Supply of materials and removal of waste Product from its Environment.
- (v) The degradation of the Environment has become a serious problem for the existence of human beings. Pollution of Soil, water and air causes harm to living Organisms as well as loss to valuable natural resources.

Q:-2 what are the scope ^{of} Environmental Studies?

- (i) Developing an awareness and sensitivity related to the environment and its ^(जीवों) related problem. ^(समस्या)
- (ii) Motivating People for active participation in environment Protection and improvement
- (iii) Developing skills for active identification and development of solution to environmental problem.
- (iv) Imbibe and inculcate the necessity for ^(कानून गति) ^(कानून गति) ^(प्रेरणा)

from further degradation, the Supreme Court has ordered and initiated environmental protection awareness through government & Non govt agencies to take part in protecting our environment.

* Environment pollution cannot be prevented by laws alone. Public participation is equally important with regard to environmental protection.

* Environmental education is a process of learning by giving an overall perspective of knowledge of environment. (उपर्युक्त)

* Due to climate change, ozone layer depletion, land degradation, depleting ground water supplies, environmental pollution, ecosystem in forest, Rural, Urban, everywhere need to be protected and aware for safety.

* Both formal and informal education on the environment will give the interested individual the knowledge, values, skills, tool needed to face the environmental challenges on a local & global level.

Q:-5 write short notes on the atmosphere, Hydrosphere, Lithosphere and Biosphere.

The environment consists of four segments

a) Atmosphere c) Lithosphere
b) Hydrosphere d) Biosphere.

Atmosphere: It consists of air. This is the protective blanket of gases surrounding the earth. It sustains life on earth.

ii) It saves the earth from the hostile environment of outer space.

(iii) Hydrosphere :-

* It consists of all types of water resources (Oceans, Seas, river, stream, glacier and ground water)
* Almost 97% of earth water supply is in the Oceans more than 2% of water resources is locked in Polar ice caps. The remaining water (less than 1%) is available as fresh water in the form of rivers, streams, lakes & ground water.

Lithosphere :- It consists land. It is the outer mantle of solid earth. It consists of mineral occurring in the earth crust & soil.

Biosphere :-

It indicates the living Organism & their interaction with the environment. (Atmosphere, Hydrosphere & Lithosphere).

⑥ Explain the multidisciplinary nature of Science with the environment.

The study of environmental sciences implies single subject but its essence multidisciplinary in study. It includes various applied and basic disciplines. These are studies related to natural Sciences such as physics, chemistry, Biology, Engg. Technology etc. study related to humanities such as arts, religion, history, Sociology, economic literature etc.

The main among these are briefly given as follows.

Botany :-

Mainly deals with plants, tree etc.

Zoology

Mainly about animals etc.

Geography :-

It deals with landscape, -Hills, weather & climate etc.

Hydrology :-

It deals with the study of flow water state distribution and circulation of water available in atmosphere, underground and above ground.

Hydraulics :-

It deals with the study of flow of water resources and function of water structure such as dams, Pipelines, rivers, irrigation Canal etc.

Anthropology :-

It refers to the effects of deforestation on life of tribal forest dwellers etc.

Q:- 7. what do you mean by Scientific Assessment & Risk Assessment.

(ବିଜ୍ଞାନିକ ଅର୍ଥାତ୍)

Scientific Assessment :-

i) The first step in the scientific evaluation of an Environmental problem is Scientific Assessment. Scientific Assessment is when information is gathered about the problem through observations & experiments.

Ex. Mysterious bird death.

Risk Assessment :-

The second step in the process would be to conduct an environmental risk assessment and this would occur after the scientific assessment has found the cause of the problem and after potential solutions are determined.

* The environmental risk assessment would investigate the potential harm to human health or the environment as a result of specific problem.

Q.08) Write down the elements of Environment ?

Environment is constituted by the interactive systems of physical, biological and cultural elements interrelated in various ways individually as well as collectively. These elements may be explained as under

* Physical element :-

Physical elements are as space, landforms, water bodies, climate, soils, rocks and minerals. They determine the variable character of the human habitat its opportunities as well as limitations.

* Biological element :-

Biological elements such as plants, animals, microorganisms and men constitute the biosphere.

* Cultural element :-

Cultural elements such as economic, social, and political elements are essentially man made features which make cultural elements.