

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 9926**

Roll No.

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**B.Tech**

SECOND SEMESTER EXAMINATION, 2005-2006

**ENVIRONMENTAL STUDIES**

*Time : 3 Hours*

*Total Marks : 100*

- Note :**
- (i) *Attempt ALL questions.*
  - (ii) *All questions carry equal marks.*
  - (iii) *In case of numerical problems assume data wherever not provided.*
  - (iv) *Be precise in your answer.*

1. Attempt *any four* parts of the following : (5x4=20)

- (a) With the help of neat sketch discuss the structure of atmosphere along with temperature profile of atmosphere and related phenomenon.
- (b) Unawareness or Ignorance with protection of environmental will lead to detrimental consequences - comment with illustrations.
- (c) What are the different types of minerals ? Describe the effects of mineral extraction on environment.
- (d) Name and explain in brief, the various ways in which, energy from oceans can be obtained.

- (e) What is Geothermal Energy ? Discuss its merits and limitations.
- (f) Write the short notes on the following :
- (i) Environment Movement in India.
  - (ii) Environment related acts.
2. Attempt *any two* parts of the following : (10x2=20)
- (a) Depict diagrammatically a terrestrial food web and oceanic food web.
  - (b) Describe the structure and function of :
    - (i) Forest ecosystem.
    - (ii) Lake ecosystem.
  - (c) "The flow of energy is one-way and continuous in an ecosystem". Justify.
3. Attempt *any two* parts of the following : (10x2=20)
- (a) Enumerate different biogeographic zones of India and explain the characteristics of each.
  - (b) What do you understand by 'Hotspots of Biodiversity'. Name and briefly describe, along with vital signs, the two hotspots of biodiversity that extend into India.
  - (c) Write short notes on any two of the following :
    - (i) Rare species and Threatened species.
    - (ii) Poaching of wild-life.
    - (iii) Insitu conservation of biodiversity.

**4. Attempt *any two* parts of the following : (10×2=20)**

- (a) What do you mean by Water Pollution ? Discuss its major sources and effects. Discuss in brief the various processes of water treatment with Layout of a water treatment plant.
- (b) What are the causes of Land slides ? Discuss its consequences and suggest the methodology to fight back such hazards.
- (c) What are 'Solid Wastes'. Discuss their types, effects and name the various methods used to dispose solid wastes. Explain any one of them with its merits and demerits.

**5. Attempt *any four* parts of the following : (5×4=20)**

- (a) What is 'Rain-Water Harvesting'. Name and discuss in brief the types of rainwater harvesting.
- (b) Briefly discuss the objectives of Resettlement and Rehabilitation Policy.
- (c) What is ozone hole. What are the causes of ozone hole formation. Discuss the effects of ozone layer depletion and its remedial measures.
- (d) Briefly discuss the salient features of Environment (Protection) Act, 1986.
- (e) What is 'Value Education' ? Discuss the concept of value education with the help of suitable examples.
- (f) What do you understand by the term 'Human Rights'. List the important articles of the 'Declaration of Human Right, 1948' adopted and proclaimed by United Nations.

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