

B.TECH.**THEORY EXAMINATION (SEM-IV) 2016-17****ENVIRONMENT AND ECOLOGY****Time : 3 Hours****Max. Marks : 100****Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.****SECTION – A****1. Explain the following:****10 x 2 = 20**

- (a) Define the Eutrophication.
- (b) What is a SYNERGISM Process?
- (c) Write difference between In situ and Ex situ conservation.
- (d) Define the Blue baby syndrome.
- (e) Write difference between point sources and non point sources.
- (f) Explain the biomagnifications.
- (g) Define the term Migration with suitable examples.
- (h) What are Bioindicators?
- (i) Which ecological pyramid is always upright? Why?
- (j) Define the Decomposers with example.
- (k) Define the birth rate and death rate.
- (l) Define the Food chain with example.

SECTION – B**2. Attempt any five of the following questions:****5 x 10 = 50**

- (a) What is meant by structure of an ecosystem? Explain the various components of an ecosystem structure. Discuss the functions of an ecosystem also.
- (b) Discuss the water borne and Water induced diseases in detail.
- (c) Briefly discuss the salient features of Wild life (Conservation) act 1972.
- (d) Discuss the alternative Energy resources. Differentiate between the renewable and non renewable energy resources.
- (e) What do you understand by 'HOTSPOTS of Biodiversity'? Name and briefly describe the two hotspots of biodiversity that extend into India.
- (f) What do you understand by Landslides? Discuss its causes, consequences, types in detail. Also suggest the methodology to fight back such hazards.
- (g) What do you mean by water-logging and salination? What are their causes and how do they influence the agricultural yields? Suggest measures to minimize them.
- (h) What are solid wastes? Discuss their types, effects and name the various methods used to dispose solid wastes. Explain any two of them with its merits and demerits.

SECTION – C**Attempt any two of the following questions:****2 x 15 = 30**

- 3. Describe the phenomenon of Sustainable development? Also Explain "Why the sustainable development is unsustainable".
- 4. What do you understand by the Environmental Impact Assessment? Write its Principles and objectives. Also discuss the sequential process of EIA in detail.
- 5. 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 Water treatment plant.