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Total No. of Pages : 02

Total No. of Questions : 18

**B.Tech.(CE)/(CSE)/(Electrical & Electronics Engg.)/
(EE)/(ECE)/(Electronics & Electrical Engg.)/(IT)/(ME) (2012 to 2017)
(Sem.-1,2)**

ENVIRONMENTAL SCIENCE

Subject Code : EVSC-101

M.Code : 54107

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B & C. have FOUR questions each.
3. Attempt any FIVE questions from SECTION B& C carrying EIGHT marks each.
4. Select atleast TWO questions from SECTION - B & C.

SECTION-A

Write briefly :

1. What are different natural and man-made impacts on the environment?
2. What are causes that pose threat to biodiversity?
3. What is eutrophication?
4. List the major environmental laws in India.
5. What does Scoping in EIA constitute?
6. List ecological benefits of biodiversity.
7. What are the organisms involved with nitrogen fixation in root zone?
8. Discuss the possible impacts of global warming.
9. What are the limitations of any two of the non-conventional energy resources?
10. Discuss a case study in relation to air pollution.

SECTION-B

11. a) Write short notes on : (2 × 2 = 4)
- i. Chemical Oxygen Demand (COD).
 - ii. Marine pollution - Causes and Consequences.
- b) Explain the structural and functional components of ecosystem. (4)
12. What are age pyramids/population profiles? Along with suitable diagrams describe different age pyramids with special emphasis on population growth in developing and developed nations. (8)
13. a) Write a short note on thermal pollution. Discuss how it can be treated an environmental hazard? (4)
- b) Critically evaluate the differences between suspended and attached growth processes used for treatment of wastewater. (4)
14. a) Define food chain and food web. Explain why the concept of food web is more real ecologically than the concept of food chain? (4)
- b) Mention any four environmental legislations. (4)

SECTION-C

15. a) Give a detailed description and diagrammatic representation of water cycle. (5)
- b) What are the disadvantages of population explosion in terms of food security? (3)
16. Critically discuss the strategies that need to be followed to streamline the management of kitchen, and garden waste that comprise almost 40% of typical Indian urban MSW? (8)
17. a) Elucidate the role of administration in management of disaster especially earthquake. (4)
- b) Deforestation influences the climate and contributes to a loss of biodiversity. Discuss the various drivers for deforestation. (4)
18. a) Discuss the impact of Noise pollution on environment. With this view, recommend measures to minimize the impact of noise pollution, on surrounding environment. (5)
- b) Differentiate between reservoir and exchange pool in biogeochemical cycles? (3)

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.