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B. Tech. (I Year) (Sem. II) (Main/Back) Examination, June/July - 2012
Common to All Branches of Engg.
Environmental Engg. Disaster Management

Time : 3 Hours]

[Maximum Marks : 80
[Min. Passing Marks : 24

Attempt any five questions, selecting one question from each unit. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination.
(Mentioned in form No. 205)

- 1. _____ Nil
- 2. _____ Nil

UNIT - I

- 1 (a) Describe the components of Ecosystem and role of Biodiversity in conservation of Ecosystem. 8
- (b) Explain various Bio-Geochemical cycles in view of functioning of Ecosystem. 8

OR

- 1 (a) Describe various sources of Non-conventional sources of Energy. 8
- (b) Discuss different segments of Environment. 8

UNIT - II

- 2 (a) Explain the characteristics for testing the quality of potable water. 10
- (b) Describe surface and ground water sources in view of their characteristics. 6

OR

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[Contd...

- 2 (a) Describe common chemicals uses as coagulants in the process of sedimentation. 6
- (b) Write a detailed note of waste water treatment. 10

UNIT - III

- 3 (a) Write methods of identifying air pollution and also explain various sources of air pollution. 8
- (b) Describe effects of Air pollution on plants and climate. 8

OR

- 3 (a) Enumerate the role of Sulphur Dioxide in air pollution. 8
- (b) Write short notes on the following :
- (i) Combustion
- (ii) Causes of global warming 8

UNIT - IV

- 4 (a) Describe the measures for earthquake risk reduction illustrating vulnerability of Indian subcontinent to earthquakes. 10
- (b) Discuss the seismic zones of India as per IS : 1893-2002. 6

OR

- 4 (a) Enumerate the causes of the following types of disasters and explain their impact :
- (i) Tsunamis
- (ii) Nuclear Accidents
- (iii) Biological Hazards
- (iv) Droughts. 8
- (b) What are disasters ? Explain the classification of disasters. 8



UNIT - V

- 5 (a) Describe various types of seismic waves and their role in occurrence of earthquakes.

10

- (b) What are plate boundaries ? Describe various plate boundaries with appropriate diagrams.

6

OR

- 5 (a) Define magnitude of earthquakes and write a note of qualitative classification of earthquakes.

10

- (b) Explain major causes of damage in various types of structures during earthquakes.

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