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B. Tech. (First Semester)
End Semester EXAMINATION, 2016
(All Branches)
ENVIRONMENTAL STUDIES

Time : Three Hours] [Maximum Marks : 100

Note : (i) This question paper contains five questions.

(ii) All questions are compulsory.

(iii) Instructions on how to attempt a question are mentioned against it.

(iv) Total marks assigned to each question are **twenty**.

1. Attempt any *two* questions of choice from (a), (b) and (c). (2×10=20 Marks)

(a) Write the , multidisciplinary function of Environmental education.

(b) What are Natural resources ? Explain any *three* unconventional sources of energy with their advantages and disadvantages.

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- (c) Explain the advantages of hydropower dams in India.
2. Attempt any *two* questions of choice from (a), (b) and (c). (2×10=20 Marks)
- (a) Write the components of Ecosystem. Explain the lake ecosystem with suitable figure.
- (b) Explain the ecological succession process with suitable example and figure.
- (c) Define the food chain and types with flow charts and explain the pyramid of numbers with suitable figure.
3. Attempt any *two* questions of choice from (a), (b) and (c). (2×10=20 Marks)
- (a) Define the Biological diversity, their types and explain the National parks, Sanctuaries and Biosphere reserve with examples and flowcharts.
- (b) Write in brief the following :
- In-Situ
 - Ex-Situ
 - Hot-Spots areas
 - Rare species
 - Man wild life conflicts
- (c) Explain the values of biodiversity and major threats to biodiversity.

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4. Attempt any *two* questions of choice from (a), (b) and (c). (2×10=20 Marks)
- (a) Define the pollution and pollutant, major sources of water pollution, effects of water pollution and prevention methods.
- (b) What is Solid Waste ? Give details about types of solid waste and explain the vermicomposting method to control the solid waste management.
- (c) Explain the terms Ozone depletion and Acid rain with suitable reactions.
5. Attempt any *two* questions of choice from (a), (b) and (c). (2×10=20 Marks)
- (a) Explain the Water Harvesting methods with components and suitable figure.
- (b) Explain the man-made (Bhopal Gas tragedy) and natural disaster (Kedarnath flood) case study.
- (c) Write the role of Information Technology in environment and human health in your own words.

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