

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

PAPER ID : 3515

Roll No.

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B.Tech.**(SEM. I) ODD SEMESTER THEORY****EXAMINATION 2013-14****ENVIRONMENT AND ECOLOGY***Time : 2 Hours**Total Marks : 50***Note :- Attempt all questions.****SECTION-A**

1. Attempt all the following questions with brief explanation :

(5×2=10)

- (a) Define the term bioindicators.
- (b) What are fossil fuels ?
- (c) What is meant by Eutrophication ?
- (d) What is greenhouse effect ?
- (e) Write sources and effect of water pollution.

SECTION-B

2. Attempt any two parts of the following :

(2×5=10)

- (a) (i) Write an explanatory note on the multi disciplinary nature of environmental science.
- (ii) 'Water could be the source of the world's next big conflict'. Explain.
- (b) (i) Discuss the environmental effect of extracting and using mineral resources.
- (ii) Discuss the role of NGOs in environmental protection.

- (c) (i) Discuss the term disaster management in Indian as well as global perspective.
- (ii) Name and discuss the effects, control and remedial measures of air pollution.

SECTION-C

Note :- Attempt all questions in this Section.

3. Attempt any **one** of the following : **(1×10=10)**
- (a) (i) Define ecology and ecosystem. Explain the role of producers, consumers and decomposers in an ecosystem.
- (ii) Write an explanatory note on the issue of economic security.
- (b) (i) With the help of flow chart, describe the Environment Impact Assessment process, and clearly mention the criteria of EIA.
- (ii) What is deforestation ? Enumerate and discuss the various causes of deforestation, and also give the remedial measures to control the deforestation.
4. Attempt any **one** of the following : **(1×10=10)**
- (a) (i) What are water induced diseases ? Explain the fluoride problem in drinking water. What measures should be taken to control the fluoridation ?
- (ii) What is material cycle ? Name and explain the various steps carried out in sulphur cycle.

- (b) (i) What is water pollution ? What are the sources and effects of water pollutants ? Explain how to control water pollution.
- (ii) Discuss the sources, effects and control of land pollution.

5. Attempt any **one** of the following : (1×10=10)

- (a) (i) What should be the 'guidelines for excellence' for environmental education ?
- (ii) Discuss the role of government and legal aspect in environmental protection.
- (b) (i) Discuss the strategy and policy adopted by Government of India for the development of women education.
- (ii) What is Ozone hole ? What are the causes of Ozone hole formation ? Write the effects of depletion of ozone layer on environment and ecosystem.