

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

PAPER ID : 1154 Roll No.

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MCA

(SEM. I) ODD SEMESTER THEORY

EXAMINATION 2013-14

ENERGY, ENVIRONMENT AND ECOLOGY

Time : 3 Hours

Total Marks : 100

Note :— Attempt all questions from each Section as indicated.

SECTION-A

1. Attempt all parts : (10×2=20)
- (a) What is food chain in an ecosystem ?
 - (b) How do you conserve energy ?
 - (c) Write a short note on Environmental Impact Assessment (EIA).
 - (d) How ocean wave energy is obtained ?
 - (e) What is the use of gas hydrates ?
 - (f) What is Global Warming ?
 - (g) What is Greenhouse Effect ?
 - (h) Write a note on environmental protection act.
 - (i) How sustainable developments improve quality of life ?
 - (j) Who spread water borne diseases ?

SECTION-B

2. Attempt any three parts : (3×10=30)
- (a) Write short notes on :
 - (i) Hotspots of biodiversity
 - (ii) Bio-geographical classification of India
 - (iii) In-situ and Ex-situ conservation.
 - (b) What are alternate sources of energy ? Describe any two of them.
 - (c) India is a mega biodiversity region. Justify it.
 - (d) What is Water Pollution ? Discuss the sources of Water Pollution.
 - (e) Define Air Pollution ? Discuss its sources and effects.

SECTION-C

3. Attempt any five parts : (5×10=50)
- (a) What is the scope and importance of environmental education and how it improves conditions in India ?
 - (b) Write a note on hydrosphere on planet earth and give a brief sketch on availability of different types of water.
 - (c) What is biodiversity ? Explain genetic, species and ecosystem diversity. Explain the consumptive and productive value of biodiversity.
 - (d) What is meant by Ecological Succession ? Discuss the process of succession with the help of hydrosere.
 - (e) What is Rainwater Harvesting ? What are the major objectives for rainwater harvesting ?
 - (f) Discuss the salient features of the :
 - (i) Wildlife (Protection) Act, 1972
 - (ii) Water (Prevention and Control of Pollution) Act, 1974
 - (iii) Environment (Protection) Act, 1986
 - (g) What is Food Chain and Food Web ? Explain with the help of suitable examples.