

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

PAPER ID : 3151

Roll No.

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- (a) What is deforestation? Enumerate and discuss the various causes of deforestation.
- (b) What is mining? Discuss the causes and impact of mining on environment.
- (c) Describe geothermal energy. Discuss its merits and limitations.
- (a) What are the major water pollutants? Discuss in brief about self purification mechanism of rivers.
- (b) Briefly describe engineered solid waste management.
- (c) What is acid rain? How is it formed? Discuss the remedial measures for controlling acid rain.
- (a) What is animal husbandry? State and discuss the environmental concerns of animal husbandry.
- (b) Name and discuss the major periods of growth of population.
- (c) Write an explanatory note on food and shelter security.
- (a) Role of NGO's in environmental protection is important. Discuss with name of some NGO's of environmental concern.
- (b) Discuss in brief the salient features of Environment (Protection) Act, 1986.
- (c) "Environment education can play an important role in environmental protection." Explain it.

M. C. A. (Second Semester) Theory**Examination, 2010-11****ENVIRONMENTAL SCIENCE & ETHICS***Time : 3 Hours]**[Total Marks : 100*

Note : The question paper contains three Sections, Sections-A, Section-B and Section-C with the weightage of 15, 25 and 60 marks respectively. Follow the instructions as given in each Section.

Section-A

This Section contains 15 questions of Fill in the blanks and True & False type questions. Attempt *all* parts of this Section.

1. Fill in the following blanks with suitable words :

1×15=15

- (a) 'World Ozone Layer Preservation Day' is celebrated on _____.
- (b) BOD stands for _____.
- (c) PAN is formed by the interaction of oxides of nitrogen and _____ in presence of sun light.

- (d) PPM stands for _____.
- (e) The phenomenon of increasing average mean temperature of earth surface is called as _____.
- (f) Acid rains is caused mainly is due to _____ gas in the atmosphere.
- (g) Dental fluorosis is caused by excessive concentration of _____ in drinking water.
- (h) Which famous environmental law was enacted in 1986 _____.
- (i) Green plants are also called _____.
- (j) Provision for environment protection in the constitution were made under _____.

Indicate True and False for the following statements :

- (k) Water vapour does not cause global warming. (True/False)
- (l) Only government can protect environment. (True/False)
- (m) Demography is study of trends in human population growth and prediction of future growth. (True/False)
- (n) Hydrogen is an alternative future source of energy. (True/False)
- (o) Flow of energy in an ecosystem is unidirectional. (True/False)

Section-B

Attempt any *five* parts. All parts carry equal marks.

5×5=25

- 2. (a) Define environment. Discuss the need for public awareness for the conservation and protection of environment.

- (b) What are natural resources? Classify them.
- (c) What is population explosion? Briefly discuss the main consequence of population explosion with reference to Indian context.
- (d) What are solid wastes and what are their different types? Discuss the effects of urban solid wastes.
- (e) What is an environmental policy? Write in brief about role of government in environment protection. Discuss the legislation present in India for environment protection.
- (f) What are greenhouse gases? Name and discuss their contribution to global warming. What can be the effects of global warming? What are the remedial measures?
- (g) What is air pollution? What are the physiological impacts of air pollution? How can air pollution be controlled?

Section-C

Attempt any *two* parts from each question. All questions are compulsory. 12×5=60

3

- (a) Define term 'sustainable development'. How sustainability can be achieved?
- (b) What is an ecosystem? Classify ecosystem on the basis of energy sources.
- (c) Describe the need of public awareness about the environment.