2012

M.Sc. Part-I Examination

ENVIRONMENTAL SCIENCE

PAPER—II

Full Marks : 100

Time : 4 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give that answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer Q. No. 1 and any five questions from the rest.

1. Answer any ten of the following : 2×10

(i) Write two names of vector-borne diseases along with names of the vectors.

(ii) State the difference between monocyte and macrophage?

(iii) What is fluorosis of cattle?

(iv) What are the sources of arsenic exposure?

(Turn Over)
(v) What is 'National Maritime Day'?

(vi) Write importance of sweet water wetlands.

(vii) Give difference between 'world-water day' and 'world-wetland day'.

(viii) What do you mean by 'in situ conservation of natural resources'?

(ix) What are the effects of SPM emitted from vehicles?

(x) What is 'Appliko Movement'?

(xi) Why $O_3$ is not produced above and below the stratosphere?

(xii) Why is 'water vapour' not considered as ideal green house gas?

(xiii) What do you mean by 'global dimming effect'?

(xiv) What is 'environmental ethics'?

(xv) Define 'biocentrism'?

(xvi) Write the characteristics of green tourism?

2. Write the meaning and scope of environmental education. Give a brief account of the environmental education and awareness programmes undertaken by the Government of India to improve public awareness and understanding of the environmental problems.

3. Give a brief outline of environmental ethics in Hinduism, Buddhism and Jainism. What are the dangers of 'ecocracy'?  

4. How is ozone formed in the ozone layer? Write the mechanism of ozone layer depletion. What is 'Dobson Unit'?  

5. Write the mechanism of 'green house effect'. Does the earth's atmosphere with green house gases behave ideally as a glass (green) house? — explain your answer. Write features about CO$_2$-sinks.

6. Write notes on any (two):
   (a) Remedial measures against global warming.
   (b) Silent Valley movement.
   (c) Socio economic impacts of dams.

7. What do you mean by 'soil pollution'? Write the causes of salts accumulation in soil.

8. Write note on any (two):
   (a) Fly ash;
   (b) Waste disposal recycling;
   (c) Water and forest resource conservation.
9. (a) Give a short outline of action plan for the Sundarbans.

(b) Describe the various functions of wetlands.

8+8

10. (a) Discuss the health consequences of goiter. Point out the risk factors of goiter.

(b) Give a brief outline of natural immunity.

8+8