

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 'Appiko 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.

6+10

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

12+4

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

5+9+2

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+5+5

6. Write notes on any (two) :

8+8

- (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.

5+11

8. Write note on any (two) :

8+8

- (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
