

2011

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 their 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) What is 'environment-development' debate?
- (ii) What is meant by 'education through the environment'?
- (iii) What is 'National Green Corps Programme'?
- (iv) Write the dates of the year for (i) Earth Day, (ii) World Water Day — Celebrations.
- (v) What is 'eco-feminism'?
- (vi) Why ozone layer is known as natural sun-screen?
- (vii) What are the features of 'new social movement'?
- (viii) What are the factors responsible for the formation of saline and alkaline soils?
- (ix) What are the principal pollutants emitted by vehicles used for transport?
- (x) Define Wasteland.
- (xi) Define — 'natural resource'. Give two examples of mineral resource.
- (xii) What are the significance of Wet-land?

(Turn Over)

- (xiii) What is desertification ?
- (xiv) Write two modes of transmission of HIV.
- (xv) What is 'Phagocytosis' ?
- (xvi) What is Agenda-21 ?
2. What is an insecticide ? Describe the biological, hormonal and biotechnological control of malaria. 4+12
 3. Explain the causes of water crisis in the world. How far the rain water harvesting techniques can support the drinking water needs of India ? 10+6
 4. What is waste ? What do you mean by MSW ? What are the advantages of 'waste-recycling' ? 3+3+10
 5. What is the role of vehicular pollution in urban air quality ? Give a brief outline of the effects of Natural Resources depletion in the developing and underdeveloped countries of the World. 6+10
 6. Explain the mechanisms and controlling measures of soil erosion. Explain how desertification takes in the outer periphery of desert. 10+6
 7. Describe Catalytic reactions of O₃-depletion. How does O₃ depletion affect human health ? What are your suggestions to check O₃-depletion ? 8+3+5
 8. (a) What is the role of environmental ethics in conservation of environment ?
(b) Identify the significance of Copenhegan Conference. 8+8
 9. Write the important features of 'Chipko Movement'. Write the benefits and problems due to construction of large dam project. 8+8
 10. Write notes on (any two) : 8×2
 - (a) Narmada Bachao Andolan ;
 - (b) Revolving fund resource and chocked flow resource ;
 - (c) Movement on 'Silent Valley Project'.