

2017

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 from the following : 10×2

(i) Mention principal pollutants emitted by vehicles used in transport.

(ii) Mention the effects of fluoride pollution.

(iii) Define 'Dobson unit'.

(Turn Over)

- (iv) What is 'eco-centrism' ?
- (v) What is meant by "deep ecology" ?
- (vi) What is "Appiko movement" ?
- (vii) What is Apoptosis ?
- (viii) What do you mean by 'Eco-club' ?
- (ix) What is range of aerosol size ?
- (x) What is Agenda 21 ?
- (xi) What is thermal stratification ?
- (xii) What are non-fuel mineral resources in India ?
- (xiii) Summarize the health effects of smog.
- (xiv) What is ex-situ and in-situ conservation ?
- (xv) What causes Goitre and Fluorosis ?
2. What is waste ? What do you mean by MSW ? What are the advantages of 'Waste-recycling' ? 3+3+10
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. Write with reactions, the role of chlorine and CFC in O₃ depletion. What are the impacts of O₃ depletion on global environment ? 8+8
5. Explain the role of "River linking project" in India to meet the irrigation water crisis. How far the present day water harvesting techniques can support the drinking water needs of India. 8+8
6. Define "Wetland" according to "Ramsar Convention". Distinguish between lake and pond and also between wasteland and wetland. 4+6+6
7. Briefly discuss formation and reclamation of Usar soil. 16
8. Discuss the different forms of non-anthropocentrism with example. Differ between anthropocentrism and non-anthropocentrism. 8+8
9. Write note on : 8+8
- (i) Narmada Dam movement.
- (ii) Strategies for conservation of Indian lakes.

10. What policies have been taken for fly ash utilization?
State the importances of environmental education and awareness.

6+10