

2018

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 questions : 10×2

(i) Define Epidemiology.

(ii) Write down the causal organism, symptoms, pathogenicity and prevention of Malaria.

(Turn Over)

- (iii) Define global warming.
- (iv) What is lotic water ?
- (v) Define invastive species.
- (vi) What do you understand by ozone layer depletion ?
- (vii) Write down the equation for smog formation.
- (viii) Define synergestic effect.
- (ix) What is Ramsar Convention ?
- (x) Distinguish between alkaline and saline soil.
- (xi) Differentiate between bioprospecting and biopiracy.
- (xii) What is meant by Eco-feminism ?
- (xiii) What is environmental ethics ?
- (xiv) What do you understand by Ecological Footprint ?
- (xv) Define Exotic species.
2. What do you understand by Rain Water Harvesting ?
Describe its relevance in the perspective of current need of water crisis. 6+10

3. Define Desertification. What are the Causes of desertification ? Describe the mitigatory option. 4+8+4
4. Define Biodiversity. Describe the types of biodiversity. State the reason why the biodiversity is rich in tropics ? 4+6+6
5. Write short note on :
- (a) Control measure of soil erosion.
- (b) Chipko Movement. 8+8
6. What is watershed ? How can watershed management solve the problem of depletion of ground water table ? 6+10
7. What is a waste land. Write down the mechanism of waste land formation. 6+10
8. Discuss health consequences of goiter. Point out the risk factors of goiter. Discuss the management strategies of malaria in India. 4+4+8

9. Mention 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.

8+8

10. Draw the relationship between ground water with surface water. Discuss the procedure and effect of desertification. Add a note on the role of wetlands on sustainable water management.

4+7+5