

**2022**

**M.Sc.**

**2nd Semester Examination**

**GEOGRAPHY**

**PAPER—GEO-201**

*Full Marks : 50*

*Time : 2 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.*

**UNIT-201.1**

**ENVIRONMENTAL ETHICS AND REGULATION**

**Group-A**

Answer any one question.

1×8

1. What is environmental ethics? Account for the formal and non-formal methods of environmental education.

*(Turn Over)*

2. Critically discuss the role of Environmental Laws for protecting Environment with special reference to Environmental Protection Act implemented by the Government of India.

### **Group-B**

Answer any *two* questions.

2×4

3. Who was Aldo Leopold and what is his contribution in environmental ethics?
4. Bring out the principles of Tbilisi conference concerning conservation of environment.
5. Explain the procedure of EIA with suitable example.
6. Comment on the role of international agencies in controlling global environmental issues.

### **Group-C**

Answer any *two* questions.

2×2

7. What do you know about spaceship earth?

8. Differentiate eco-centrism from anthropocentrism.
9. What is EMP?
10. What do you know about Deep ecology?

### **UNIT-201.2**

### **ENVIRONMENTAL ENGINEERING**

#### **Group-A**

Answer any *one* question.

1×8

1. Elucidate the role of oxidation pond in waste water treatment with special reference to East Kolkata Wetland.
2. How do primary and gaseous precursors alter the physical characteristics of atmosphere and discuss the radioactive effect of such alteration?

#### **Group-B**

Answer any *two* questions.

2×4

3. How does the composition of waste vary between developed and developing country?

4. Assess the bio-physical impacts of noise.
5. Why surface  $O_3$  concentration is lower than that of upper stratosphere?
6. Compare among the effectiveness of the techniques available for fluoride management.

**Group-C**

Answer any two questions.

2×2

7. Define hazardous waste.
8. What are hydrophobic and hydrophilic particles?
9. Mention the mechanism of developing arsenic from pyrite minerals?
10. What is aerosol radiative forcing?

[Internal assessment - 10]

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