

2013

M.Sc.

3rd Semester Examination

ZOOLOGY

PAPER—ZOO-303

Full Marks : 40

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.

Group—A

(Environmental Management and Biodiversity)

1. Answer any two questions of the following : 2×2
 - (a) Define Keystone species with example.
 - (b) What is Ecomark ?
 - (c) Mention the relationship between Ecodegradation and Pollution.
 - (d) What is the full form of CBD ?

(Turn Over)

2. Answer any *two* questions of the following : 4×2

(a) What is 'Biodiversity Hotspots'? Name 4 'Biodiversity Hotspots' of India.

(b) Differentiate between Sentinels and Detectors.

(c) Enlist the root causes of 'Biodiversity loss'.

(d) Briefly discuss on 'World's Conservation Strategy'.

3. Answer any *one* question of the following : 8×1

(a) Define Sustainable Development. State economic, social and environmental objectives of sustainable development. Add a note on the ICUN categories of protected areas. 2+3+3

(b) Define EIA. What are the different steps in EIA? Briefly discuss on the Acts pertaining to the protection of Air, Water, Forest and Wildlife. 2+3+3

Group—B

(Environmental Resource and Pollution)

4. Answer any *two* questions of the following : 2×2

(a) Schematically represent different types of Environmental Resources.

- (b) Enlist different sources of sound pollution.
- (c) Highlight the physical characteristics of troposphere and stratosphere in respect of air pollution.
- (d) What is 'Thermal Inversion'?
5. Answer any two questions of the following : 4×2
- (a) Explain the hazards associated with mineral resource extraction.
- (b) What is Ozone Hole? How does it form?
- (c) State environmental impact of pesticides.
- (d) Mention the contributory factors for soil pollution.
6. Answer any one question of the following : 8×1
- (a) What is sewage? Mention the characteristics of municipal sewage. Briefly discuss different sewage treatment processes. 2+2+4
- (b) What is Acid rain? How does it form? Discuss the environmental impact of Acid rain? 2+3+3
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