2011

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 : 2×2

(a) What is extirpation ?

(b) Define keystone species with example.

(c) Mention the relationship between ecodegradation with pollution.

(d) What is 'Ecomark' ?

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

(a) Define EIA. Briefly highlight the criteria for Socioeconomic Impact Assessment. 1+3

(b) Mention the types of Bioindicator with one example each.

(c) Enlist causes and rates of extinction.

(d) What are the IUCN categories of the protected areas.

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

(a) Give a brief account on the concept of Biodiversity. Add a note on the value of Biodiversity. Enlist the root causes of biodiversity loss. 3+3+2

(b) Mention different steps in environmental management. Briefly discuss the objectives of conservation and world conservation strategy. Add a note on the objectives of sustainable development. 2+4+2

Group—B

(Environmental Resource and Pollution)

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

(a) Draw the relationship between D.O. and B.O.D.

(b) Differentiate pollutants from contaminants.

(c) Mention the relationship between ecodegradation and pollution.

(d) Highlight the processes for the removal of air pollutants.

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

(a) Schematically represent the environmental changes because of entrophication.

(b) State the differences between London type smog with that of Loss Angles one.

(c) Explain the role of meteorological parameters in the formation of Acid Rain.

(d) Briefly discuss the strategy for the sustainable management of mineral resources.

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

(a) Draw the relationship between global 3 & 5 warming with Green House Effect. Briefly discuss the environmental impact of global warming.

(b) What is sewage? What are the composition of municipal and industrial sewage? Explain the working principle of 'Tertiary Sewage Treatment process.

1+3+4

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