2010

M.Sc.

3rd Semester Examination

ZOOLOGY PAPER—Z-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) Differentiate between resource and wealth. Give example.
- (b) What is sustainable use of resource?
- (c) What is Environment Kuznets Curve?
- (d) What is CBD?

2. Answer any two of the following:

- 4×2
- (a) What do you understand by 'Ecological-Societal' Gaps?
- (b) Draw the model of two contrasting scenarios of human survival as suggested by V.R. Potter (1988).
- (c) What is a 'Biodiversity Hotspot'? Name 4 Biodiversity Hotspots of India.
- (d) Name one Act pertaining protection of air, water, forest and biodiversity and state in which year these were enacted in India.
- 3. Answer any one of the following:

8×1

- (a) Define Environmental Impact Assessment (EIA). Give a brief account of the 12 steps followed in EIA process as has been suggested by UNEP (1996).
 - 2+6
- (b) Give a brief account of the types and causes of species extinction. What is extirpation? Give example.6+2

Group-B

(Environmental Resource and Pollution)

1. Answer any two of the following:

 2×2

- (a) Distinguish between Inexhaustible and exhaustible resource.
- (b) Enlist different sources of fossil fuels.
- (c) Differentiate between point pollution and non point pollution.
- (d) What are oxygen demanding wastes?
- (e) Differentiate between London type and Los-Angeles type of smog.
- 2. Answer any two of the following:

 4×2

- (a) Mention different steps to be undertaken for sustainable use of mineral resource.
- (b) State different zones of atmosphere alongwith their environmental characteristics.
- (c) Briefly state the impact of chemical fertilizers on environment.
- (d) Citing a suitable example explain the phenomenon of biomagnification.

3. Answer any one of the following:

8×1

- (a) Briefly state the chemical processes leading to the formation of photochemical smog. Mention the role of meteorological parameters in the development of photochemical smog.
- (b) What is acid rain? State the chemical reactions leading to the formation of acid rain. Distinguish between wet and dry acid precipitation.