M.Sc.

2017

2nd Semester Examination

ZOOLOGY

PAPER—ZOO-204

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.

Answer *all* questions of the following.

Group-A

(Wildlife diversity and Environmental Management)

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

   (a) Give on idea about the numbers (approx) of animals species which have either been domesticated or cultivated.

   (b) Menton about the Hot-spots in Indian Subcontinent.

(c) What is PRA methods ?

(d) Mention the significance of ecological corridor.

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

(a) Mention different steps in Environmental Management.

(b) Highlight the values of Biodiversity.

(c) Explain the significance of Environmental Impact Assessment.

(d) Briefly discuss the roles of Sacred Grove in wildlife conservation.

3. Write *one* question from the following :   1×8

(a) Write a comparative account of Sanctuary. National Park and Biosphere Reserve. Enlist different IUCN conservation categories. Add a note on different subspecies of tigers.   3+3+2

(b) Give on account on the names, distribution and threats of different members of Deer family in India.   3+2+3

Group-B

(*Bioinformatics*)

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

   (a) Explain the building blocks of a Database.

   (b) Convert $(9DA)_{16} = (\ ? \ )_{10}$

   (c) Provide 2 examples each of Composite Databases and Structure Databases.

   (d) Distinguish between origin, sequence and FASTA format.

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

   (a) Classify primary databases with examples.

   (b) Describe the features of assembly language. Name the type of interpreter required for it.

   (c) Distinguish between Prediction and Pattern recognition.

   (d) What do you mean by Allignment ? Enlist the steps of performing BLAST through pubmed.