

M.Sc. Examination, 2019
Semester-II
Zoology
Paper – MZCT-203
(Ecology and Conservation Biology)

Time: 3 Hours

Full Marks: 40

Questions are of value as indicated in the margin.

Answer **any four** questions.

1. What do you mean by demographic transition? Describe briefly four stages of demographic transition. How can ecological footprint be calculated? 2+4+4=10
 2. What is diversity gradient? How do time and spatial heterogeneity factors operate on diversity gradient? 2+4+4=10
 3. What are the different sources of air pollution? Discuss any two phenomena of air pollution that adversely affecting the environment. Introduce any two global initiatives to encounter air pollution. 2+6+2=10
 4. Why is conservation biology often regarded as integrative discipline? Give a brief account of strategies adopted for conservation of wildlife. 2+8=10
 5. "Pollution is now a major threat for human health". –Explain. Describe any two incidents in the past where pollution threatened human lives. 6+4=10
 6. Write short notes (**any two**) 5+5=10
 - (a) Ecological Robustness
 - (b) Exergy
 - (c) Principles of Conservation Biology
 - (d) Strategic species concept
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