1904N291

Candidate's Seat No	:
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M.Sc Semester-2 Examination

409

Zoology

Time: 2-30 Hours

April-2024

[Max. Marks: 70 Define biomes. Give a brief description of Indian biomes. Q-I What is EIA? Describe EIA in detail with its timeline and process. 2 OR (14)What is meant by succession? Write a note on Hydrarch succession. 1 Write in detail about bioremediation along with the advantages and disadvantages. 2 Q-II Provide the correlation between 'r' and 'K' selected species using different factors. 1 What is commensalism? What are the two main types of commensalism? Explain it 2 with proper examples. (14)OR Competition: What is it? Which are the two primary types of it? Provide relevant 1 examples to explain it. Provide a comprehensive description of the quadrat sampling technique. 2 Q-III 1 Explain briefly: Basics of remote sensing. What is active and passive remote sensing? Describe uses of it in detail. 2 OR (14)Discuss elements of a good map. 1 Give a note on types of aerial cameras. Q-IV 1 Describe the types of memory in animals. Define social behavior. Write the types and benefits of social behavior. 2 OR (14)Write in detail about types and patterns of animal behavior. 1 What is meant by communication? Describe various types of communication observed in animals. Answer any SEVEN out of TWELVE. O-V Write the steps for solid waste management. 1 $\overline{(14)}$ 2 Define Carbon footprint. 02 02 3 Write the full form of NPP and GPP. The sex ratio varies according to the age profile of the population. According to it, 02 what is the primary sex ratio and what is the tertiary sex ratio? 02 What physical factors affect the size of a bird's clutch? 5 In the first sampling from the Nal Sarovar, 250 Labeo rohita were captured and 02 marked. In the second sampling, 300 Labeo rohita were caught of which 100 were 02 marked. So, calculate the estimation of the population of Labeo rohita. 7 Explain the purpose of ESRI. 02 8 What is "Geostationary orbit"? 02 9 Define: Shapefiles Give any two reasons of migration in animals. 02 10 What is meant by pre-courtship and post- courtship behavior. 02 11 12 Name any two tools used to study animal behavior. 02 02