

B.Sc. Semester I (Honours) Examination, 2018-19

ZOOLOGY

Course ID: 12612

Course Code: SHZOO-102C-2(T)

Course Title: Perspective in Ecology

Time: 1 Hour 15 Minutes

Full Marks: 25

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

1. Answer *any five* questions: 1×5=5
 - (a) Define Bioindicator.
 - (b) What do you mean by stenothermal organism?
 - (c) What is Keystone species?
 - (d) What is species dominance?
 - (e) What is carrying capacity?
 - (f) Define food web.
 - (g) What is emigration?
 - (h) What is Blue data book?

 2. Answer *any two* questions: 5×2=10
 - (a) What is survivorship curve? Describe different survivorship curves with examples. 2+3=5
 - (b) Write Gause's principle and give one example. Define species richness. 1+2+2=5
 - (c) What do you mean by seral community and climax stage? What is ecotone? 2+2+1=5
 - (d) Distinguish between Y shaped food chain and detritus food chain. What is NPP? 4+1=5

 3. Answer *any one* question: 10×1=10
 - (a) Discuss the Logistic and Exponential growth curve with figures and equations. Compare between r selected population and K selected population. 6+4=10
 - (b) Explain Biosphere Reserve using a suitable model. What is cryopreservation? Suggest some management strategies for Tiger conservation. Write full form of UNESCO. 3+1+5+1=10
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