



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 1st Semester Examination, 2021-22

ZOOACOR02T-ZOOLOGY (CC2)

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.*

1. Answer any **eight** questions from the following: 2×8 = 16
- (a) What is 10% law?
 - (b) What is ecological organization?
 - (c) What do you understand by 'Flagship species'? Give one example of it.
 - (d) What is asymptote?
 - (e) What is allogenic succession?
 - (f) State Liebig's law of minimum.
 - (g) State the key fauna and key flora of Sundarban Biosphere Reserve.
 - (h) Why an aquarium is not considered as ecosystem?
 - (i) What do you mean by climax community?
 - (j) Distinguish between food chain and food web.
 - (k) What is fecundity?
 - (l) What is hydrosere?
2. Answer any **three** questions from the following: 3×3 = 9
- (a) What is growth curve? Explain the sigmoid growth curve. 1+2
 - (b) Explain horizontal stratification of community. 3
 - (c) Distinguish between static and cohort life table. What is life expectancy? 2+1
 - (d) Define detritus food chain with example. State characteristics of it. 1 $\frac{1}{2}$ + 1 $\frac{1}{2}$
 - (e) What is ecotone? State its characteristics. 1+2
 - (f) Differentiate between wildlife sanctuary and national park. 3
3. Answer any **three** questions from the following: 5×3 = 15
- (a) What is survivorship curve? Discuss different types of survivorship curves with examples. 1+4
 - (b) Write suitable index used to measure species diversity and state its significance. 1+2+2
Explain *in situ* and *ex situ* modes of conservation.

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| (c) Define biosphere. What are biosphere resources? | 1+4 |
| (d) State the salient features of Wildlife Protection Act, 1972. | 5 |
| (e) What are double packed pyramids? Describe the pyramid of biomass. | 2+3 |
| (f) What is energy flow in ecosystem? Describe Y-shaped energy flow model. | 2+3 |

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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