



WEST BENGAL STATE UNIVERSITY

B.Sc. Honours Part-II Examination, 2020

ZOOLOGY

PAPER: ZOOA-V

Time Allotted: 2 Hours

Full Marks: 50

*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 **five** questions from the following: 2×5 = 10
- (a) What is holotype?
 - (b) Write two examples of an innate immunity.
 - (c) What are epitope and paratope?
 - (d) What is a climax community?
 - (e) Write down the full form of IUCN and WWF.
 - (f) Define microtaxonomy.
 - (g) Name one primary and one secondary lymphoid organ.
 - (h) State the function of macrophages.
 - (i) Define zoonosis with example.
 - (j) What is a detritus food chain?
2. Answer any **four** questions from the following: 10×4 = 40
- (a) Distinguish between *r* and *k* selected species with suitable example. 10
 - (b) What are the different types of ecological pyramids, explain with example. 10
 - (c) State the features of National park, wildlife sanctuary and a biosphere reserve. 10
 - (d) What is Taxonomy? How does it differ from systematic? Discuss the different levels of taxonomic study. 2+2+6
 - (e) Briefly narrate the life cycle of *Ascaris lumbricoides* with diagram. 10
 - (f) State any five rules of zoological nomenclature. 10
 - (g) What is meant by H1N1 strain of influenza virus? Discuss the pathophysiology of influenza virus. 2+8
 - (h) Briefly explain the technique of any one kind of ELISA with suitable diagram. 10

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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