



WEST BENGAL STATE UNIVERSITY

B.Sc. Honours Part-I Examination, 2020

ZOOLOGY

PAPER-ZOOA-II

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.*

Answer any five questions from the following

2×5 = 10

1. Define peripatric speciation.
2. Define genetic drift.
3. Differentiate between allele frequency and genotype frequency.
4. State the H-W theorem.
5. Give examples of discrete and continuous variable.
6. What is null and alternative hypothesis?
7. Define standard error and mention the formula.
8. Define Neoteny.
9. Define correlation coefficient.
10. What is gene flow?

Answer any four questions from the following

10×4 = 40

11. Briefly explain the evolution of horse. 10
12. State and explain the model assumptions of H-W equilibrium. 10
13. Briefly explain the three types of natural selection. 10
14. Discuss allopatric and sympatric speciation. 5+5
15. Find the median of the following frequency distribution: 10

Weekly wages in Rs.	0-20	20-40	40-60	60-80	80-100
Number of workers	40	51	64	38	7

16. Discuss about prezygotic and postzygotic isolation mechanism. 10
17. Differentiate between punctuated equilibrium and gradualism with example. 10
18. Write short notes on: 5+5
- (i) Inheritance of acquired characters
- (ii) Heterochrony.

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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