



B.Sc. (Part-III), Examination 2015
Model Paper A (Zoology)
Paper -III (Applied Zoology, Ethology and Biostatistics)

Time Allowed: 3 Hours
34

Max. Marks:

Part -I

All questions are compulsory :-

1. Answer briefly:

- a) What is ericulture?
- b) Give names of any four crustacean larvae.
- c) What do you mean by 'mother of pearl'?
- d) Name the scientist who proposed the concept of imprinting.
- e) What is electroencephalogram (EEG)
- f) What are pheromones?
- g) What are pie charts?
- h) Write the zoological name of lac insect.
- i) Define frequency distribution.
- j) What is the main food of silk moth?

Part -II

Attempt 4 questions in all , selecting at least one from each section. All questions carry equal marks:

Section -A

2. Write short notes on:

- i. Vermiculture
- ii. Coral reefs

3. Write an essay on Lac culture.

4. Describe the role of protozoa in spreading disease with the help of suitable examples.

Section -B

5. Write notes on:

- i. Flush toilet model ii. Concept of Fixed Action Pattern

6. Describe the neuro-anatomical technique of studying animal behavior.

7. Write short notes on:

- i. Role of pheromones ii. Characteristics and advantages of societies

Section –C

8. Define mean, median, standard deviation, standard error and class interval.

9. Calculate mean for given data:

Blood sugar: 101 200 250 150 98 135 157 160 111 171

No. of patients: 2 3 5 5 3 5 2 5 10 10

10. Draw a suitable histogram for the given data:

Class intervals: 0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80

Frequency: 3 4 7 8 9 9 2 6



B.Sc. (Part-III), Examination 2015
Model Paper B (Zoology)
Paper -III (Applied Zoology, Ethology and Biostatistics)

Time Allowed: 3 Hours

Max. Marks:

34

Part -I

All questions are compulsory :-

1. Answer briefly:

- Write the names of products of Apiculture.
- What is vermiculture?
- Who is the father of pearl industry?
- Define Fixed Action Pattern.
- Write names of three social animals.

- f) Name the larval forms of crustaceans.
- g) Which centre is controlled by Broca's area?
- h) Define standard deviation.
- i) Write the full form of ASE.
- j) What is pisciculture?

Part -II

Attempt 4 questions in all , selecting at least one from each section. All questions carry equal marks:

Section -A

- 2. Write short notes on:
 - i. Sericulture ii. Economic importance of Mollusca
- 3. Define Apiculture. Discuss various methods of bee-keeping.
- 4. Write an essay on larval stages of crustaceans.

Section -B

- 5. Write an essay on social organization in honeybees.
- 6. Write short notes on:
 - i. Innate Releasing Mechanism ii. Neurochemical techniques of studying behavior
- 7. Write down a detail account on pheromones.

Section -C

- 8. Describe in detail, the graphical presentation of data.
- 9. Calculate mean by using short-cut method:

Marks (Out of 50)	0-10	10-20	20-30	30-40	40-50
No. of students	10	12	18	15	5

- 10. Define standard deviation. Calculate the standard deviation from the following data:

Class Interval	2-2.9	3-3.9	4-4.9	5-5.9	6-6.9
Frequency	6	13	11	8	12

