

**B.Sc. Part-III**  
**Paper-III Applied Zoology, Ethology and Biostatistics**

**A. Short answer type questions**

1. Explain degree of freedom.
2. Define society.
3. Name main types of fish products.
4. What is Swarming?
5. What is the composition of lac?
6. Define fixed action pattern.
7. Who conducted the experiment for trial and error behavior on cat?
8. When is *Bombyx mori* reared?
9. What is shellac?
10. What is the importance of pheromones?
11. Differentiate between class limit, class interval and class frequencies?
12. Who first applied student t-test?
13. What do you mean by the term measures of Central tendency?
14. What are the diagnostic features of circadian rhythms?
15. Define apiculture.

**B. Long answer type questions**

1. write short note on-
  - a) Application and use of Biostatistics
  - b) Methods of representation of statistical data
2. Describe the process of imprinting and learning?
3. What is Pearl culture? Write classification, habits, habitat, characters and structure of mantle of pearl culture.
4. Write short notes on-
  - a) Motivation
  - b) Social organization in deer
5. Define and explain Arithmetic mean, Median and Mode. Mention merits and demerits of each measure.
6. Write an essay on Sericulture.
7. Define the term Standard deviation with the help of suitable example. Show the method of calculating it. What are its merits and demerits?
8. Explain the methods of studying animal behavior.
9. Give a detailed account on economic importance of Corals and coral reefs.
10. Write an essay on biological clocks and rhythms.