



# DIRECTORATE OF DISTANCE EDUCATION

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## M.Sc. (Zoology) Previous DEC 2022 Assignment

All Questions are to be Answered.  
All Questions are of Equal Value.

Each Maximum in 800 Words  
Max./Mark Weightage= 30%

### Paper- 1

1. Define the basic concept of Biosystematics with illustrations.
2. Give a detailed account of Taxonomic characters and its different kinds.
3. Describe different types of Biodiversity.

### Paper-2

1. Discuss the systematic position of Sponges.
2. Discuss filter-feeding in Mollusca.
3. Describe the Structure and affinities of Entoprocta.

### Paper- 3

1. What is integument? Describe the Structure and function of integument.
2. Give a comparative account of Brain in Vertebrates series.
3. Describe the general organization and affinities of Rhynchocephalia.

### Paper- 5

1. What do you mean by standard deviation and standard error of mean? Calculate the Standard Error of Mean (SEM) by taking suitable data.
2. Explain Co-efficient of Correlation with suitable example.
3. What is Ecosystem? Describe the various components of a freshwater ecosystem.

### Paper- 6

1. Describe the different structural levels of Protein.
2. Describe the physiology of muscle contractions.
3. Explain the chemical nature of hormones.

### Paper- 7

1. Describe the principles, working and application of fluorescence Microscopy.
2. Explain the principle, working and application of flame Photometry.
3. Write down the histochemical procedure for detection of alkaline phosphates activities in animal tissues.

नोट:- दस्त कार्य जमा करने की अंतिम तिथि 15/12/2022