

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai - 600 044.

B.Sc.PBPBT - END SEMESTER EXAMINATIONS - NOV'2024

SEMESTER - I

20UPBAT1001 - Allied Zoology - I

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Sketch and label the external structure of *Paramecium*.
2. Illustrate the types of chromosomes with reference to the position of centromere.
3. Classify the morphogenetic movements observed in *Amphioxus*.
4. Prepare a flowchart highlighting the factors affecting organisms' behaviour and physiology.
5. List out the general characteristic features of Phylum Arthropoda.
6. Relate Albinism and Phenylketonuria categorized under Inborn error of metabolism.
7. Describe the typical chordate characters of *Amphioxus*.
8. Recommend any five major control measures to be taken to reduce air pollution in Chennai.

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Describe the life cycle of *Plasmodium*.
10. Relate the structure and functions of Cockroach mouthparts.
11. Distinguish between the structure of DNA and RNA.
12. Prepare a detailed list of events taken place during the process of fertilization.
13. Appraise on the causes and effects of water pollution.
