

M.Sc. 1st Semester Examination, 2023

ZOOLOGY

*(Non-Chordates, Chordates, Histochemistry &
Animal Physiology)*

(Practical)

PAPER – ZOO-195

Full Marks : 50

Time : 5 hours

Answer all questions

The figures in the right hand margin indicate marks

1. Identify the given specimen (systematic position up to Order/subclass level with two important characters for each taxa) $2\frac{1}{2} \times 3$
- A; B; C; D.

2. (a) Draw and label the (Vth/VIth cranial nerves of Labeo rohita) system of displayed specimen (major). 5
- (b) Dissect, display, draw and label the (Pecten of chicken/Cycloid/Ctenoid scales of fish/Stomatogastric nervous system of cockroach) from supplied specimen (Minor). 5
3. (a) Estimate the BHT of your partner/subject as per instructions given and comment on your results. 4 + 1
- (b) Draw a labelled diagram of Dale's apparatus. How can hypoxia be indicated from the given kymogram? 5 + 3
4. (a) Identify with reasons of the provided histological tissue sections : 2 + 2
A; B.

(b) Demonstrate histochemically the lipid biomolecules within the biomembrane of peripheral blood erythrocytes with a labelled diagram. $5\frac{1}{2}$

5. Laboratory Note Book 5

6. Viva- voce 5

