

**M.Sc. 4th Semester Examination, 2025**

**ZOOLOGY**

**PAPER—ZOO-494**

**(Practical)**

*Full Marks : 50*

*Time : 5 hours*

**Answer all questions**

*The figures in the right hand margin indicate marks*

*Candidates are required to give their answers in their own words as far as practicable*

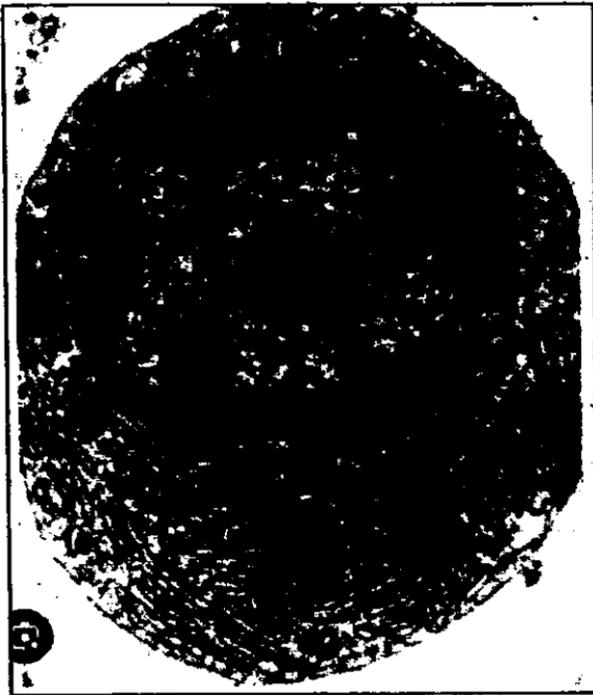
1. Estimate the BOD value of the water sample provided, which had been incubated for 5 days. Comments on your result. (Initial DO = 6 m g/l, Dilution factor = 100/2). 5+2

( Turn Over )

( 2 )

2. (a) Mention five distinct subcellular structures of the electron micrograph provided.

5



- (b) Draw and label the sympathetic nervous system and endocrine glands of a cockroach mentioning main functions of the Glands.

3

3. Apply appropriate statistical test on the data provided and justify your answer. 10
  4. Dissect and display the chick embryo from the fertilized egg provided. Identify the developmental stage. Draw a labelled diagram of the same and write down the identifying characters. 8 + 2 + 2 + 3
  5. Submission of Laboratory Notebook. 5
  6. Viva voce. 5
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