

Roll No. :

Total No. of Questions : 8]

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MPZOO-01
M.Phil. Examination, 2022
ZOOLOGY
Paper - I
(Research Methodology)

Time : 3 Hours]

[Maximum Marks : 100

Note :- Answer any *five* questions out of eight. All questions carry equal marks.

1. Describe the methodology of biological sample preservation.
2. Give an account of principle, technique and working of Spectrophotometer.
3. Write short notes on the following :
 - (a) Patch Clamp Technique
 - (b) Centrifuge Rotors
4. What is the use of Gas Chromatography ? Describe the types of detectors used in GC.

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5. Give an account on the following :
 - (a) HPLC Column and Detector
 - (b) Electrophysiological Equipment
6. Write a note on principle and working system of audio-visual equipments.
7. Describe the method of sample preparation for electron microscopy. Also compare the TEM and SEM.
8. Describe the technique used for separating molecules by electric current.