

2021
M. Sc 1st Semester Examination
ZOOLOGY
Paper-ZOO 196 (Practical)

(Immunology, Methods in Biology, Cell Biology & Cytogenetics)

Full marks- 50

Time-2 hrs

The figures in the margin indicate full marks.

Candidates are required to give their answer in their own words as far as practicable. Illustrate the answer wherever necessary.

Answer the following questions:

1. Write the procedure of stain preparation of macrophage. Draw diagram and comment on it. 8
2. Write down the process of agarose gel electrophoresis. 8
3. Draw and label of polytene chromosome from *Drosophila* larvae. What are the identifying characters of this chromosome. What are the significance of polytene chromosome? 10
4. Find out genotype the cross with explanation. 7
Vestigial female - 11, Normal female - 32, vestigial male - 10 and normal male - 30.
5. Write the process of mitochondrial staining from epithelial cell. Draw and comments on staining result. 7
6. Laboratory Note Book 5
7. Viva-voce 5