

**PG (NEW) CBCS**  
**M.Sc. Semester-I Examination, 2019**  
**ZOOLOGY**  
**PAPER: ZOO-196**  
**PRACTICAL**

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

**Full Marks: 50**

**Time: 5 Hours**

---

1. Make a stained preparation of macrophage from the specimen provided.  
Comment on your observation. **8+4=12**
  
2. a) Make a cytological preparation of the chromosome from the specimen supplied. Draw a labeled diagram of you observation and comment on it.  
**10+4=14**  
  
b) Explain the results given with genotype analysis. **6**
  
3. Write the principle and protocol of (stepwise) gel electrophoresis. **5**
  
4. Identify the stages of cell division with reasons. (Sample A.) **3**
  
5. Laboratory Note Book. **5**
  
6. Viva-Voce. **5**

\*\*\*\*\*

**PG (NEW) CBCS**  
**M.Sc. Semester-I Examination, 2019**  
**ZOOLOGY**  
**PAPER: ZOO-196**  
**PRACTICAL**

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

**Full Marks: 50**

**Time: 5 Hours**

---

1. Make a stained preparation of macrophage from the specimen provided.  
Comment on your observation. **8+4=12**
  
2. a) Make a cytological preparation of the chromosome from the specimen supplied. Draw a labeled diagram of your observation and comment on it.  
**10+4=14**  
  
b) Explain the results given with genotype analysis. **6**
  
3. Write the principle and protocol of (stepwise) gel electrophoresis. **5**
  
4. Identify the stages of cell division with reasons. (Sample A.) **3**
  
5. Laboratory Note Book. **5**
  
6. Viva-Voice. **5**

\*\*\*\*\*