

Total Pages—4

PG/IIS/BML/203/25

**M. Sc. 2nd Semester Examination, 2025**

**BIO-MEDICAL LABORATORY SCIENCE**

**& MANAGEMENT**

*(Clinical Entomology and Parasitology)*

PAPER – BML-203

*Full Marks : 50*

*Time : 2 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*

**GROUP – A**

**Answer any four questions from the following :**

**2 × 4**

**1. What is meant by digenetic parasite ?**

*( Turn Over )*

( 2 )

2. What is Chagomas and its causative agent ?
3. What is Espundia ?
4. Name any two medicines for the treatment of filariasis.
5. Define definitive host.
6. What do you mean by zoonotic parasite ?

### GROUP—B

Answer any four questions from the following :

4 × 4

7. Differentiate the microscopic morphology of *Plasmodium vivax* and *Plasmodium falciparum*.
8. Write a brief note on cutaneous leishmaniasis.
9. Write the clinical utility and significance of Montenegro skin test.

( 3 )

10. Write the morphological characteristics of nematodes. Name any two filarial nematodes causing elephantiasis. 3 + 1
11. Discuss the pathological symptoms of *Entamoeba histolytica* infection. 3 + 1
12. Write any one parasitic egg counting technique. 2 + 1

### GROUP - C

Answer any two questions from the following : 8 × 2

13. What are hemoflagellates ? Schematically illustrate the different morphological stages of hemoflagellates. 2 + 6
14. What is 'Winterbottom's sign' ? Elaborate the life cycle of *Trypanosoma brucei* causing African trypanosomiasis in humans and highlight the infective and diagnostic stage. 2 + 6

( 4 )

15. Which parasite infection is present under STORCH panel ? Write the clinical symptoms of that parasitic infection. Discuss the life cycle of that parasite. 1 + 2 + 5

16. What is gravid proglottid ? What is hexacanth embryo ? Write briefly the life cycle of *Taenia solium*.

[ Internal Assessment – 10 Marks ]