

**M.Sc. 2nd Semester Examination, 2023**

**BIO-MEDICAL LABORATORY SCIENCE  
AND MANAGEMENT**

PAPER — BML-203

*Full Marks : 50*

*Time : 2 hours*

*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 :  $2 \times 4$**

- 1. What are hemoflagellate parasites ?**
- 2. What do you mean by definitive host ?**
- 3. What is tricomoniiasis ?**

4. What is hermaphroditism ?
5. What is gravid proglottid ?
6. What is meant by nocturnal periodicity in parasites ?

GROUP – B

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

7. Write the pathogenecity of *Entamoeba histolytica*. What is encystation ? 4 × 4  
3 + 1
8. State the life cycle of *Ascaris lumbricoides*. 4
9. Briefly write the Mc Master parasitic egg counting technique. 4
10. Name one blood fluke. How it is transmitted to human body ? Who is the intermediate host of it ? 1 + 2 + 1
11. Compare between the West and East African Trypanosomiasis. 4

12. Discuss about differential microscopic observations of malarial parasites. 4

GROUP – C

Answer any two questions from the following :

- 8 × 2
13. Write the principle and procedure of occult blood test. Write the collection procedure of faecal specimen. (2 + 3) + 3
14. Discuss the life cycle of *Toxoplasma gondii*. What are the symptoms of congenital toxoplasmosis ? 5 + 3
15. What is cysticercosis ? What is scolex ? Discuss in brief the life cycle of *Taenia solium*. 2 + 1 + 5
16. Why is Leishmaniasis called Kala-azar ? Explain the transmission of Leishmanial parasites referring different stages and hosts. 2 + 6

[ Internal Assessment – 10 Marks ]

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