

2024

M.Sc. 2nd Semester Examination

**BIOMEDICAL LABORATORY SCIENCE
AND MANAGEMENT**

PAPER : BML-203

Full Marks : 40

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.*

Illustrate the answers wherever necessary.

GROUP—A

Answer *any four* of the following questions :

2×4=8

1. What is Balantidiasis?
2. What do you mean by intermediate host?
3. What is scolex?

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(Turn Over)

(2)

4. Cite two parasites which infect central nervous system.
5. What are Charcot-Leyden crystals?
6. Write the taxonomical rank of Plasmodium.

GROUP—B

Answer *any four* of the following questions :

4×4=16

7. Write the morphological features and transmission of *Giardia lamblia*. 3+1
8. Discuss the procedure of 'STOLL' egg counting technique for the detection of parasite infection. 4
9. Discuss about the pathogenicity of toxoplasma infection. Name any two diagnosis processes of *T.gondii*. 3+1
10. Write briefly about the urogenital specimen collection technique. 4
11. Which malarial parasites exist as hypnozoites? What is the chemical significance of this stage? 2+2

/1131

(Continued)

(3)

12. Write a brief note on lymphatic filariasis. 4

GROUP—C

Answer *any two* of the following questions :

8×2=16

13. Write about the lifecycle of hookworm. What are the clinical features of hookworm infection? 5+3
14. Briefly discuss about different types of leishmaniasis? Why is leishmaniasis commonly called as zoonotic disease? What are the infective and diagnostic forms of *L. donovani*? 4+2+2
15. Write the major pathological symptoms of blood flukes infection. Discuss the lifecycle of *Schistosoma mansoni*. 3+5
16. What is 'Trich'? What is the differential diagnosis of Trich with bacterial vaginosis? Discuss the distinguished morphological features of transmission of the Trich parasite. 2+3+3

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PG/2nd Sem/BML-203/24

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