

PG (CBCS)
M.Sc. Semester- III Examination, 2023
MEDICAL LABORATORY TECHNOLOGY
PAPER: MLT 304B
(CLINICAL VIROLOGY & PARASITOLOGY)



Full Marks: 40

Time: 2 Hours

The figures in the right-hand margin indicate full marks.
 Candidates are required to give their answers in their own words as far as practicable.

GROUP-A

1. Answer any **FOUR** of the following questions: 2×4=8
- a) Write briefly about clinical features of amoebiasis.
 - b) What are basic differences between the Orthomyxoviridae and Paramyxoviridae group?
 - c) What is prion?
 - d) Why trypanosomiasis is called sleeping sickness?
 - e) What do you mean by facultative and constitutive parasite?
 - f) What is paratenic host?

GROUP-B

2. Answer any **FOUR** of the following questions: 4×4=16
- a) Describe the mode of transmission and clinical manifestation of yellow fever. 4
 - b) What is giardiasis? Write down the symptoms and treatment of giardiasis. 1+2+1
 - c) What is ova stool test? What kind of infection can be found by this test? 2+2
 - d) What is bacteriophage? Describe the morphology of a bacteriophage with a diagram 1+3
 - e) Why does Kala-azar skin darken? How do you diagnose this disease? 2+2
 - f) Write down the functions of different immediate and late proteins functions in HSV-1 replicative cycle. 4

GROUP-C

3. Answer any **TWO** of the following questions: 8×2=16
- a) How our immune-system protect us against viral infections? Briefly describes the pathogenicity of influenza virus with a suitable diagram. 3+5
 - b) Write the causative agent of lymphatic filariasis. Briefly discuss about its pathogenesis. Describe the life cycle of SV40. 1+2+5
 - c) Describe briefly the asexual life cycle of Plasmodium. Write the prophylaxis and treatment of malaria. 4+2+2

(1)

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d) Briefly discuss the different modes of lab diagnostic approaches are commonly practicing for viral diseases. Mention the various type of complications usually observed in measles virus infection.

4+4

