

PG CBCS
M.SC. Semester-III Examination 2021
MEDICAL LABORATORY TECHNOLOGY
PAPER: MLT 304B
(VIROLOGY & PARASITOLOGY)

Full Marks: 40**Time: 2 Hours****Answer any FOUR questions of the following:****4X10=40**

1. Enumerate a virus that transmits via blood transfusion. Discuss briefly about the laboratory diagnosis of hepatitis B virus. What is Delta virus? 2+5+3
2. Describe briefly the life cycle and laboratory diagnosis of *Entamoeba histolytica*. 6+4
3. Discuss about the different methods of virus isolation in a laboratory. What do you mean by PEP in Rabies virus? What are Negri bodies? 4+4+2
4. Discuss about the lab diagnosis of kalasaar. Write a short note on PKDL. What is oriental sore? 5+3+2
5. Enumerate the viruses causing hemorrhagic fever. Write a short note on the epidemiology, detection prevention of COVID-19. What is ADE? 2+5+3
6. Write the name of causative parasite of PAM. What are the pathogenicity and clinical features found in this disease? Differentiate the parasite of PAM with *Acanthamoeba*. 1+5+4
7. Write about antigenic variations in Influenza virus. Briefly explain the pathogenesis of HIV infection. What do you mean by OI in HIV? 4+4+2
8. What kinds of structural modifications are found in the intestinal parasite? Write short notes about hyperplasia and neoplasia. 5+(2.5+2.5)
9. Describe briefly the asexual cycle of *Plasmodium falciparum*. Write down the clinical features and treatment of malignant tertian malaria. 5+3+2
10. State the different stages of lysogenic life cycle. Differentiate between *Myoviridae*, *Siphoviridae* and *Podoviridae* family bacteriophages. What is latent period in one step growth curve? 5+3+2
