

**BMLT**

**B.Sc. Second Semester End Examination-2024**

**[Regular & Supplementary Paper]**

**PAPER: XI**

**Virology & Parasitology**

*Full Marks: 40*

*Time: 02Hrs*

*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*

- 1. Answer any FIVE questions of the following:                    5x2= 10**
  - a) Describe the various stages of 'Febrile Paroxysm'.
  - b) Differentiate between Aeds, Anopheles and culex adult mosquitoes.
  - c) What do you mean by terms Sprozoiter and Merozoiter?
  - d) Mention the sign & simptoms for Lishmaniasis?
  - e) Write the general characteristics for virus?
  - f) Define bacteriophage and write its imporatnce..
  - g) Define virology with name of common tests.
  - h) Name the primary host and secondary host for Trykanosomiasis?
  
- 2. Answer any FOUR questions of the following:                    4x5 = 20**
  - a) On the basis of genetic natural present, classify Viruses?

(2)

- b) Briefly explain the process of 'Exflagellation'?
  - c) Specify the definitive and intermediate host in *Wuchereria bancrofti*. Explain the stages of *Microfilaria* development in the mosquito?
  - d) With the help of a diagram, Explain the process of lytic cycle?
  - e) Write a short note on  
Cap Snatching process by influenza virus from host cell mRNA?
  - f) Describe how Acquired Immunity contribute to the resistance against malaria?
3. Answer any ONE question of the following: **1x10 = 10**
- a) Write down the life cycle and Prophylaxis of *Ascaris lumbricoides*. What are the four common mosquito transmitted viral encephalitis? **5+3+2**
  - b) Describe the elaborately the Laboratory diagnosis procedure for the detection of malaria. Differentiate between (+) ve sense RNA and (-) sense RNA. How transmission of Rota virus takes place. **5+3+2**
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