

**BMLT**

**B.Sc. Second Semester End Examination-2023**

**(Regular & Supplementary Paper)**

**PAPER-XI**

**[Virology and Parasitology]**

*Full Marks: 40*

*Time: 02 Hrs*

*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. What are the significance of lytic and lysogenic pathway of bacteriophage?
  - b. Write the differences between fertilized and unfertilized ova of *Ascaris*.
  - c. What is CPE?
  - d. Write the structural morphology of amastigote and promastigote of LD?
  - e. What are the basic difference between small pox and chicken pox?
  - f. What is Taeniasis and its clinical condition?
  - g. Write the four species of malaria parasite. What is convulcent carrier?

(2)

h. Write the four RNA virus in Enveloped with Single stranded negative scence?

2. Answer any FOUR questions of the following: 4x5 = 20

- a. Write in brief about Elephantiasis.
- b. Write down the life cycle and pathogenicity of *Antamoeba histolytica*.
- c. Describe the procedure of chick Embryo in virus culture.
- d. What is 'Antigenic shift and Antigenic drift' in Influenza virus?
- e. Write short note on *Molluscum contagiosum*?
- f. What are the special characteristic morphology of orthomyxo virus and antigenic nature?

3. Answer any ONE question of the following: 1x10 = 10

- a. Write the procedure of virus replication in host cell? 10
- b. Write in brief about the life cycle of malaria parasite and how you perform the detection of malaria parasite from blood sample? 3+7

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