

**Instructions:**

- a) All questions are compulsory
- b) Draw diagrams wherever necessary
- c) Answers of Questions and Sub-questions must be written strictly according to serial order of question paper.
- d) Do not write anything on the blank portion of question paper, if written anything such type of act will be considered as an attempt to resort to unfair means

**Q1. Long Answer questions**

2 X 10 = 20

- a. Classify herpesviruses. Discuss pathogenesis and laboratory diagnosis of Varicella zoster virus.
- b. Classify somatic nematodes. Describe the life cycle, pathogenesis and laboratory diagnosis of Wuchereria bancrofti.

**Q2. Short Answer Questions**

4 X 5 = 20

- a. Complications of plasmodium falciparum.
- b. Pneumocystis jiroveci.
- c. Hepatitis E virus.
- d. Type 3 hypersensitivity reaction.

**Q3. Very Short Answer Questions**

1 X 10 = 10

- a. Give two examples of live attenuated vaccines used for viral diseases.
- b. Define herd immunity.
- c. Enumerate important biological functions mediated by the complement.
- d. Heterophile agglutination reactions.
- e. Null cells.
- f. Draw well labelled diagram of Influenza viruses.
- g. Germ tube test.
- h. Draw a well labelled diagram of trophozoite of trichomonas vaginalis.
- i. Enumerate important pathogenic viviparous helminths
- j. Draw a well labelled diagram of life cycle of ascaris lumbricoides.