

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 Human herpes viruses. Describe the pathogenesis, clinical features, lab diagnosis, treatment and prophylaxis of Varicella-Zoster virus infection.
- b. A 25-year-old male admitted with H/O crush injury to right leg 3 days back. Wound was heavily contaminated with soil due to road traffic accident. On examination, local muscles were crushed, local oedema was present and tenderness and crepitus at the site of injury. With this history, answer the following questions.
 - I. What is the probable diagnosis of this condition and the pathogenesis of this condition?
 - II. Describe the laboratory diagnosis in detail.

Q2. Short Answer Questions

4 X 5= 20

- a. National tuberculosis elimination program.
- b. Laboratory diagnosis of UTI
- c. Slow viral diseases
- d. Cutaneous larva migrans.
- e. Laboratory diagnosis of congenital syphilis
- f. Clinical spectrum, pathogenesis and Lab diagnosis of Cryptococcal meningitis.

Q3. Very Short Answer Questions

1 X 10= 10

- a. Name the modes of HIV transmission.
- b. Name four fungi responsible of ocular infections.
- c. Name two malignancies which can be prevented by vaccination.
- d. Name two parasites which infect genito-urinary tract.
- e. Why Cerebrospinal fluid should not be refrigerated before processing the sample for culture?
- f. Constituents of Hospital Infection control committee (HICC) in brief.
- g. Infections caused by Free living amoebae.
- h. Enumerate Tissue nematodes.
- i. Enumerate skin and soft tissue infections caused by S.aureus .
- j. Biomedical waste disposal categories .