

M.Sc.(Microbiology) (CBCS Pattern) Semester - IV
PSMBT-13 - Paper-I : Medical Microbiology and Parasitology

P. Pages : 1

Time : Three Hours



GUG/S/23/11408

Max. Marks : 80

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- Notes : 1. All the questions are compulsory and carries equal marks.
2. Draw the diagram wherever it is necessary.

1. Define Epidemiology. Explain various methods of control of communicable diseases. **16**

OR

Write note on followings:

- a) Explain the factors responsible for virulence. **8**
b) Methods of Attenuation. **8**

2. Describe antigenic structure, pathogenesis and laboratory diagnosis of *Corynebacterium diphtheriae*. **16**

OR

Describe the followings:

- a) Explain the different methods for isolation and identification of pathogens from feces. **8**
b) Explain the pathogenesis of *Yersinia Pestis*. **8**

3. Describe cultural characters, pathogenesis and Laboratory diagnosis of *Candida albicans*. **16**

OR

Write note on:

- a) Pathogenesis of *Histoplasma capsulatum*. **8**
b) Describe the laboratory diagnosis of *Blastomyces dermatitis*. **8**

4. Name the causative agents of malaria. Draw a schematic diagram of the life cycle and discuss the laboratory diagnosis. **16**

OR

Write note on followings:

- a) Pathogenesis of *E. histolytica*. **8**
b) Laboratory diagnosis of *Wuchereria bancrofti*. **8**

5. Write a short note on:

- a) Koch postulates. **4**
b) Identification of pathogens from sputum. **4**
c) Pathogenesis of Helminths **4**
d) Life cycle of *Schistosoma haematobium*. **4**
