

M.Sc. (Part—II) Semester—IV (CBCS) Examination
MICROBIOLOGY
(Medical Microbiology)
Paper—XVI

Time : Three Hours]

[Maximum Marks : 80

Note :— All questions are compulsory and carry equal marks.

1. Classify streptococci and write a note on its pathogenesis. 16

OR

Describe in detail morphology, pathogenesis and laboratory diagnosis of *Mycobacterium tuberculosis*.

16

2. Describe the clinical spectrum and the laboratory diagnosis of plague. 16

OR

(a) Role of *Pseudomonas aeruginosa* in hospital infections 4

(b) Difference between classical and El Tor Vibrios 4

(c) Widal test 4

(d) Shigellosis. 4

3. Name the fungi causing systemic infection. Describe the pathogenesis and laboratory diagnosis of *Histoplasma Capsulatum*. 16

OR

(a) Laboratory diagnosis of candidiasis 8

(b) Classification of fungi. 8

4. Describe the life cycle and laboratory diagnosis of *Entamoeba histolytica*. Draw appropriate diagram. 16

OR

(a) Discuss the life cycle of *Leishmania donovani* 8

(b) General character and classification of cestodes. 8

5. Describe the Kirby-Bauer disc diffusion method and the Stokes method in detail. 16

OR

(a) Define passive immunization. Explain how human sera/immunoglobulins are beneficial in this. 8

(b) Describe normal flora of human body. 8