

M.Sc. (Microbiology) (NEP Pattern) Semester-IV  
**STPG04MCB001 - Medical Microbiology and Parasitology**

P. Pages : 1

Time : Three Hours



**GUG/S/25/16368**

Max. Marks : 80

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1. Explain Attenuation and methods of attenuation in detail. 16

**OR**

a) Write a note on Koch's postulates. 8

b) Explain the Virulence and factors responsible for virulence. 8

2. Write in detail about *Clostridium tetani* considering its cultural characteristics, pathogenesis and laboratory diagnosis. 16

**OR**

a) Write a note on identification of pathogenic bacteria from blood sample. 8

b) Describe the collection and isolation of pathogenic bacteria from throat swab. 8

3. Explain the Laboratory diagnosis and cultural characteristics of *Blastomyces dermatitis*. 16

**OR**

a) Write a note on pathogenesis of *Candida albicans*. 8

b) Explain the morphological and cultural characteristics of *Cryptococcus neoformans*. 8

4. Give detail account on study of pathogenic protozoa – E. Histolytica. 16

**OR**

a) Describe the life cycle of *Leishmania donovani*. 8

b) Write a short note on *Ascaris lumbricoides*. 8

5. Write a short note on

a) Normal flora of human body. 4

b) Laboratory diagnosis of *Coxiella burnetii*. 4

c) Cultural characteristics of *Trichophyton rubrum*. 4

d) Life cycle of *Plasmodium vivax*. 4

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