

S.No. 207

12PAM04

(For the candidates admitted from 2012–2013 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2017.

Second Semester

Applied Microbiology

MEDICAL BACTERIOLOGY AND MYCOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 5 = 25 marks)

Answer ALL questions.

All questions carry equal marks.

1. (a) Explain the indigenous normal microflora of human body.
Or
(b) Give an account on non-specific host immune mechanisms.
2. (a) Comment on the pathogenicity and control measures of streptococci.
Or
(b) Write notes on cultural characteristics and laboratory diagnosis of Clostridium.

3. (a) Explain the gram negative spirochetes.

Or

(b) Discuss the hospital acquired infections.

4. (a) How will you isolate and identify the fungi from clinical specimens?

Or

(b) Write an account on mycotoxins.

5. (a) Comment on the Blastomycosis.

Or

(b) Write notes on Aspergillosis.

SECTION B — (5 × 10 = 50 marks)

Answer ALL questions.

All questions carry equal marks.

6. (a) What are the virulence factors of bacteria causing infections? Explain in detail.

Or

(b) How will you collect and dispatch clinical specimens for microbiological diagnosis? Explain in detail.

7. (a) Give a detailed account on cultural characteristics, pathogenicity, laboratory diagnosis and control measures of Staphylococci.

Or

(b) Describe the morphology, pathology, laboratory diagnosis and control measures of Bacillus.

8. (a) Discuss the cultural characters and control measures of mycoplasma.

Or

(b) Write an essay on Zoonotic diseases and their control.

9. (a) Explain in detail about the morphology and classification of medically important fungi.

Or

(b) Describe the antifungal agents with suitable examples.

10. (a) Discuss the clinical importance, etiology, pathogenesis and treatment of Dermatophytes.

Or

(b) Write an essay on candidiasis.