

FACULTY OF SCIENCE

M. Sc. III – Semester (CBCS) Examination, March / April 2021

Subject : Microbiology  
Paper - I : Food Microbial Technology

Time : 2 Hours

Max. Marks: 80

PART – A

Note: Answer any five questions.

(5 x 7 = 35 Marks)

- 1 Soy Sauce
- 2 Tempeh
- 3 Bifidus Milk
- 4 Kumiss
- 5 Food Poisoning
- 6 Mycotoxins
- 7 Canned Foods
- 8 Food Pathogens

PART – B

Note: Answer any three questions.

(3 x 15 = 45 Marks)

- 9 Write an essay on different health aspects of fermented foods.
- 10 Give detailed account on mushroom cultivation.
- 11 Describe the different types of microorganisms present in milk and their significance.
- 12 Discuss the properties and beneficial effects of probiotics and prebiotics.
- 13 Write an essay on detoxification methods of mycotoxins and add note on mechanism of toxicity.
- 14 Explain the different types of food preservation and safety methods.
- 15 Write an essay on different food quality assessment methods.
- 16 Give a detailed account on screening and enumeration of spoilage microorganisms.

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FACULTY OF SCIENCE  
M. Sc. III – Semester (CBCS) Examination, March 2021

Subject : Microbiology  
Paper : II - Medical Bacteriology

Time : 2 Hours

Max. Marks: 80

PART – A

Note: Answer any five questions.

(5 x 7 = 35 Marks)

- 1 Classify the medically important bacteria
- 2 Write significance of normal flora of intestinal tract
- 3 Explain the role of toxins in bacterial infections
- 4 Specimen transportation methods
- 5 Diphtheria
- 6 Infection caused by *Neisseria gonorrhoeae*
- 7 Infection caused by *Vibrio cholerae*
- 8 Infection caused by *Pseudomonas aeruginosa*

PART – B

Note: Answer any three questions.

(3 x 15 = 45 Marks)

- 9 Explain the influence of various factors on Normal Flora of human body.
- 10 Give a detail account on distribution of normal flora of intestinal tract and urogenital tract with suitable examples.
- 11 Write in detail about role of toxins and enzymes in pathogenicity of bacterial infections.
- 12 Explain different types of specimens and their transportation methods to the laboratory.
- 13 Explain culture characteristics and pathogenicity of  $\beta$ -haemolytic streptococci.
- 14 Explain the pathogenesis and clinical symptoms of *Neisseria meningitidis*.
- 15 Give a detailed account on antigenic structure and pathogenesis of *Salmonella typhi*.
- 16 Explain the pathogenesis and control measures of *Clostridium tetani*.

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