Annai Violet
Arts & Science College
(Affiliated to the University of Madras, Co-Ed | NAAC Reaccredited)

DEPARTMENT OF MICROBIOLOGY
UNIT TEST 1
Subject: Food & Dairy Microbiology

Class: III B. Sc MB **Date: 10.01.2023**
Max. Marks: 25 **Sub.Code: SN26B**

PART A (5 ×2 =10 Marks)
Answer any FIVE questions

1. Bread mold
2. Chlamydiospores
3. Asepsis
4. TDT
5. Pasteurization
6. Canning
7. Write the principles of food preservation?

PART B – (5 ×1 = 5 Marks)
Answer any ONE question

8. Write on the general characteristics and classification of Mold?
9. Discuss on Canning and its methods used in food industry?

PART C – (10× 1 = 10 Marks)
Answer any ONE question

10. Explain briefly on factors influencing the microbial activity in foods?
11. Discuss on the preservation methods employed using high temperature?

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DEPARTMENT OF MICROBIOLOGY

UNIT TEST 1

Subject: Marketable Microbial Products

Class: III B.Sc Microbiology **Date: 12/01/2023**
Max.Marks: 25 **Sub. Code:**

PART A (5 × 2 =10 Marks)
Answer any FIVE questions

1. Phycobiliproteins
2. B- carotene
3. UV protecting pigments
4. Spawn
5. Write the examples of Mushroom Fungi
6. Flavanoids
7. SCP

PART B – (5 × 1 = 5 Marks)
Answer any ONE question

8. Write the uses and applications of Spirulina
9. Explain the medicinal properties of Mushroom.

PART C – (10× 1 = 10 Marks)
Answer any ONE question

10. Write on detailed account on cultivation of Spirulina.
11. Describe the steps involved in the cultivation of Mushroom

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DEPARTMENT OF MICROBIOLOGY
UNIT TEST 1
Subject: Industrial and Pharmaceutical Microbiology

Class: III B.Sc MB. **Date: 11.01.2023**
Max.Marks: 25 **Sub. Code:**

PART A (5 × 2 =10 Marks)
Answer any FIVE questions

1. Name any two Antifoaming agents.
2. Secondary metabolites
3. What is Sparger? Mention its uses.
4. What is log phase? Mention its significance.
5. How baffles and impellers used as a stirrer.
6. Turbidostat
7. Saccharomyces.

PART B – (5 × 1 = 5 Marks)
Answer any ONE question

8. Write a detailed account on the large scale cultivation of Saccharomyces.
9. Describe the methods of sterilization of fermentor.

PART C – (10× 1 = 10 Marks)
Answer any ONE question

10. Write a detailed account on Microbial growth kinetics
11. Give an account on the design of fermentor with neat sketch.

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DEPARTMENT OF MICROBIOLOGY
UNIT TEST 1
Subject: Environmental Microbiology

Class: III B.Sc MB
Max.Marks: 25

Date: 09.01.2023
Sub. Code: SN26A

PART A (5 ×2 =10 Marks)
Answer any FIVE questions

1. Pleuston
2. Niche
3. Thermal Stratification
4. Droplet Nuclei
5. Infectious dust
6. Climax Community
7. Phytoplankton

PART B – (5 ×1 = 5 Marks)
Answer any ONE question

8 Write a note on estuary as ecosystem.
9 List out air borne diseases.

PART C – (10× 1 = 10 Marks)
Answer any ONE question

10 Write on detailed account on microbial communities in aquatic habitat.
11 Describe how will you assess the air quality?

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DEPARTMENT OF MICROBIOLOGY
UNIT TEST 1
Subject: Environmental Microbiology

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Max.Marks: 25

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DEPARTMENT OF MICROBIOLOGY
UNIT TEST 1
Subject: Soil and Agricultural Microbiology

Class :II B.ScMB **Date :11.01.2023**
Max.Marks :25 **Sub. Code:SN24A**

PART A (5 ×2 =10 Marks)
Answer any FIVE questions

1. Autecology.
2. Actinomycetes.
3. Biogeochemical cycle.
4. Sulphur bacteria
5. Phosphate solubilization.
6. Laterite soil.
7. Autochthonous.

PART B – (5 ×1 = 5 Marks)
Answer any ONE question

8. Give an illustrated account on soil profile
9. Write a detailed account on carbon cycle.

PART C – (10× 1 = 10 Marks)
Answer anyONE question

10. Explain in detail about the role of soil microbes in relation to soil fertility.
11. Discuss the role of soil microorganisms in nitrogen cycle.

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Max.Marks :25 **Sub. Code:SN24A**

PART A (5 ×2 =10 Marks)
Answer any FIVE questions

1. Autecology.
2. Actinomycetes.
3. Biogeochemical cycle.
4. Sulphur bacteria
5. Phosphate solubilization.
6. Laterite soil.
7. Autochthonous.

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Answer any ONE question

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9. Write a detailed account on carbon cycle.

PART C – (10× 1 = 10 Marks)
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DEPARTMENT OF MICROBIOLOGY

UNIT TEST 1

Subject: Clinical Biochemistry

Class: II B.Sc Microbiology **Date: 12/01/2023**
Max.Marks: 25 **Sub. Code: SN34A**

PART A (5 × 2 =10 Marks)
Answer any FIVE questions

1. Define Cori's Disease
2. List out the symptoms of diabetes mellitus
3. Define Van den Bergh reaction
4. Define Jaundice
5. Blood Glucose Homeostasis
6. Name any two glycogen storage disease
7. Define IDDM

PART B – (5 × 1 = 5 Marks)
Answer any ONE question

8. Discuss about Scope of Clinical Biochemistry
9. Brief the types of jaundice

PART C – (10× 1 = 10 Marks)
Answer any ONE question

10. Define glycogen storage diseases. Explain their symptoms, diagnosis and biochemical changes.
11. Define jaundice. Explain the different types of jaundice and its clinical features.

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DEPARTMENT OF MICROBIOLOGY

UNIT TEST 1

Subject: Clinical Biochemistry

Class: II B.Sc Microbiology **Date: 12/01/2023**
Max.Marks: 25 **Sub. Code: SN34A**

PART A (5 × 2 =10 Marks)
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2. List out the symptoms of diabetes mellitus
3. Define Van den Bergh reaction
4. Define Jaundice
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6. Name any two glycogen storage disease
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PART B – (5 × 1 = 5 Marks)
Answer any ONE question

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9. Brief the types of jaundice

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