

DEPARTMENT OF BIOCHEMISTRY

UNIT TEST 1

Subject : Molecular Biology

Class : III B.Sc Bio.Che. Date :10/01/2023

Max.Marks : 25

Sub. Code:

PART A (5 × 2 =10 Marks)

Answer any FIVE questions

1. Plasmid?
2. Chagoffs rule?
3. Cot Analysis?
4. Satellite DNA?
5. SSBP?
6. What is Primer give example?
7. Palindromic sequence?

PART B – (5 × 1 = 5 Marks)

Answer any ONE question

8. Properties of DNA?
9. Write the enzymology of replication?

PART C – (10 × 1 = 10 Marks)

Answer any ONE question

10. Explain about DNA as a genetic Material by Fred Griffith experiment?
11. Describe about DNA replication in prokaryotes?

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- 2 Chagoffs rule?
- 3 Cot Analysis?
- 4 Satellite DNA?
- 5 SSBP?
- 6 What is Primer give example?
- 7 Palindromic sequence?

PART B – (5 × 1 = 5 Marks)

Answer any ONE question

- 8 Properties of DNA?
- 9 Write the enzymology of replication?

PART C – (10 × 1 = 10 Marks)

Answer any ONE question

- 10 Explain about DNA as a genetic Material by Fred Griffith experiment?
- 11 Describe about DNA replication in prokaryotes?



DEPARTMENT OF BIOCHEMISTRY
UNIT TEST 1
Subject: Clinical Biochemistry

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

Date: 09.01.2023
Sub. Code:

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

1. Explain the term homeostasis of blood glucose.
2. Define galactosemia.
3. Give the proteins present in plasma.
4. What are isoenzymes?
5. Mention the normal range for fasting and post absorptive blood glucose.
6. What is GTT?
7. Write the diagnostic significances of creatine kinases

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

8. Discuss about fructosuria.
9. Explain Vandenbergh test.

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

10. Write a note on Glycogen storage diseases.
11. Explain isoenzymes of lactate dehydrogenase



DEPARTMENT OF BIOCHEMISTRY
UNIT TEST 1
Subject: Clinical Biochemistry

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

Date: 09.01.2023
Sub. Code:

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

8. Explain the term homeostasis of blood glucose.
9. Define galactosemia.
10. Give the proteins present in plasma.
11. What are isoenzymes?
12. Mention the normal range for fasting and post absorptive blood glucose.
13. What is GTT?
14. Write the diagnostic significances of creatine kinases

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

10. Discuss about fructosuria.
11. Explain Vandenbergh test.

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

11. Write a note on Glycogen storage diseases.
12. Explain isoenzymes of lactate dehydrogenase



**DEPARTMENT OF BIOCHEMISTRY
UNIT TEST I**

Subject: Immunology

**Class :III B.ScBio.Che.
Max.Marks :25**

**Date : 11.01.23
Sub. Code:**

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

1. Define Immunity.
2. What is called cell mediated immunity?
3. Define Hapten
4. What is called Native Antigen?
5. Define Phagocytosis.
6. Innate immunity.
7. Define an antibody.

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

8. Differentiate between Cell mediated and Humoral immunity.
9. Describe the structure, types and functions of Antigen?

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

10. Explain the structure and functions of primary lymphoid organ?
11. Elaborate the structure and biological importance of Ig G?



**DEPARTMENT OF BIOCHEMISTRY
UNIT TEST I**

Subject: Immunology

**Class :III B.ScBio.Che.
Max.Marks :25**

**Date : 11.01.23
Sub. Code:**

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

1. Define Immunity.
2. What is called cell mediated immunity?
3. Define Hapten
4. What is called Native Antigen?
5. Define Phagocytosis.
6. Innate immunity.
7. Define an antibody.

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

8. Differentiate between Cell mediated and Humoral immunity.
9. Describe the structure, types and functions of Antigen?

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

10. Explain the structure and functions of primary lymphoid organ?
11. Elaborate the structure and biological importance of Ig G?



DEPARTMENT OF BIOCHEMISTRY

UNIT TEST-I

SUBJECT: Biotechnology

Class: III B.Sc., Biochemistry **Date : 12.01.2023**

Max. Marks: 25 **Sub.code:**

PART A ($5 \times 2 = 10$ Marks)

Answer any FIVE questions

1. Define Restriction endonuclease.
2. Define DNA ligase
3. Write a note on cDNA
4. Give an account on DNA finger printing.
5. pBR322
6. What is recombinant DNA technology?
7. Define vectors.

PART B – ($5 \times 1 = 5$ Marks)

Answer any ONE question

8. Explain the properties of Vectors
9. Give an account on merits of recombinant DNA technology.

PART C – ($10 \times 1 = 10$ Marks)

Answer any ONE question

10. Explain the steps in recombinant DNA technology.
11. Give an account on different types of vectors.

DEPARTMENT OF BIOCHEMISTRY

UNIT TEST-I

SUBJECT: Biotechnology

Class: III B.Sc., Biochemistry **Date : 12.01.2023**

Max. Marks: 25 **Sub.code:**

PART A ($5 \times 2 = 10$ Marks)

Answer any FIVE questions

1. Define Restriction endonuclease.
2. Define DNA ligase
3. Write a note on cDNA
4. Give an account on DNA finger printing.
5. pBR322
6. What is recombinant DNA technology?
7. Define vectors.

PART B – ($5 \times 1 = 5$ Marks)

Answer any ONE question

8. Explain the properties of Vectors
9. Give an account on merits of recombinant DNA technology.

PART C – ($10 \times 1 = 10$ Marks)

Answer any ONE question

10. Explain the steps in recombinant DNA technology.
11. Give an account on different types of vectors.



DEPARTMENT OF BIOCHEMISTRY

UNIT TEST I

Subject: Allied Microbiology II

Class: II B.Sc Bio.Che.

Max.Marks: 25

Date: 12.01.2023

Sub. Code: SN3AB

PART A (5 × 2 = 10 Marks)

Answer any FIVE questions

1. What are the components that are used in spoilage of food.
2. Define Food Microbiology.
3. Write the characteristics of Algae.
4. What is meant Biofertilizers.
5. Brief Pasteurization.
6. Phosphatase test.
7. Rhizobium.

PART B – (5 × 1 = 5 Marks)

Answer any ONE question

8. Explain Preservation techniques.
9. Briefly discuss the role of Actinomycetes in decomposition of organic matter

PART C – (1 × 10 = 10 Marks)

Answer ONE question

10. Detailed account on Fermented Milk Products.
11. Explain Nitrogen cycle with neat diagram.



DEPARTMENT OF BIOCHEMISTRY

UNIT TEST I

Subject: Allied Microbiology II

Class: II B.Sc Bio.Che.

Max.Marks: 25

Date: 12.01.2023

Sub. Code: SN3AB

PART A (5 × 2 = 10 Marks)

Answer any FIVE questions

1. What are the components that are used in spoilage of food.
2. Define Food Microbiology.
3. Write the characteristics of Algae.
4. What is meant Biofertilizers.
5. Brief Pasteurization.
6. Phosphatase test.
7. Rhizobium.

PART B – (5 × 1 = 5 Marks)

Answer any ONE question

8. Explain Preservation techniques.
9. Briefly discuss the role of Actinomycetes in decomposition of organic matter

PART C – (1 × 10 = 10 Marks)

Answer ONE question

10. Detailed account on Fermented Milk Products.
11. Explain Nitrogen cycle with neat diagram.

DEPARTMENT OF BIOCHEMISTRY
UNIT TEST 1

Subject : Biomolecules & Biochemical techniques

Class : II B.ScBio.Che.
Max.Marks : 25

Date : 11.01.2023
Sub. Code:SB24A

PART A ($5 \times 2 = 10$ Marks)
Answer any FIVE questions

1. Define Lipids
2. Define Iodine Value
3. Difference between Good Cholesterol and Bad Cholesterol
4. Define Sterols
5. Difference between saturated fatty acid and unsaturated fatty acid
6. Draw the structure of Cholesterol
7. Define Lipoproteins.

PART B – ($5 \times 1 = 5$ Marks)
Answer any ONE question

8. Explain the Characterization of fats
9. Explain the structure and functions of Cholesterol

PART C – ($10 \times 1 = 10$ Marks)
Answer any ONE question

10. Explain the classification of fatty acids with examples
11. Explain Lipoproteins and its types.

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UNIT TEST 1

Subject : Biomolecules & Biochemical techniques

Class : II B.ScBio.Che.
Max.Marks : 25

Date : 11.01.2023
Sub. Code:SB24A

PART A ($5 \times 2 = 10$ Marks)
Answer any FIVE questions

1. Define Lipids
2. Define Iodine Value
3. Difference between Good Cholesterol and Bad Cholesterol
4. Define Sterols
5. Difference between saturated fatty acid and unsaturated fatty acid
6. Draw the structure of Cholesterol
7. Define Lipoproteins.

PART B – ($5 \times 1 = 5$ Marks)
Answer any ONE question

8. Explain the Characterization of fats
9. Explain the structure and functions of Cholesterol

PART C – ($10 \times 1 = 10$ Marks)
Answer any ONE question

10. Explain the classification of fatty acids with examples
11. Explain Lipoproteins and its types.