REV-01 BMLT/05/10

## BACHELOR OF MEDICAL LABORATORY TECHNOLOGY SECOND SEMESTER PLOCHEMISTRY II

BIOCHEMISTRY II BMLT – 203 [REPEAT]

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Objective )

Time: 30 min.

Choose the correct answer from the following:

b. Deoxyribonucleic acid

d. None of the above

2. Water is:

a. Neutral and alkali

a. Ribonucleic acid

c. Both a and b

c. Base

RNA is:

b. Acid

d. Neutral

3. To produce a product, an enzyme act on:

a. enzyme

c. Both of the above

b. substrate

d. None of the above

4. In enzymic reaction, substance which speeds reaction is:

a. Substrate

c. Both of the above

b. Catalyst!

5. pH of water is:

a. 8 c. 10

b. (

d. None of the above

d. None of the above

6. Double helical structure of DNA was shown by:

a. Watson

b. Crick

c. Both of the above

d. None of the above

7. Polymers of nucleotide is:

a. DNA

b. RNA

c. Both of the above

d. None of the above

8. Sodium hydroxide is:

a. Base

b. Acid

c. Neutral

d. None of the above

2023/06

SET

A

Full Marks: 70

Marks: 20  $1 \times 20 = 20$ 

9. In base pairing of DNA or RNA, guanine to adenine and thiamine to: a. Uracil c. Both of the above d. None of the above 10. Properties of water deals with: a. Van de wash force c. Both of the above 11. A world famous author for Biochemistry books a. Chavarasia c. Leninger d. None of the above 12. A cell contain: a. Nucleus c. Golgi bodies 13. The name of course code of Biochemistry I books 14. BMLT 103 c. BMLT 103 c. BMLT 103 c. BMLT 103 d. BMLT 104 d. Sodium biochemistry I book of the above 15. TDPA and CAIV in abbreviation is: a. some c. Only a d. None of the above 16. When a phosphate group attach to a nucleoside, it is called as: a. Nucleoside c. Both a face to he do not consider the above 17. Ribionachedides consists of Nucleoside a. Roba and the do not consider the above 18. RNA are three types namely a. mRNA and rRNA c. Both a and b d. None of the above 19. Engangen shee, Phosphoric acid, rifeses sugar c. Only a d. All of the above 19. Engangen shae, Phosphoric acid, rifeses sugar c. Only a d. All of the above 19. Engangen shae, Phosphoric acid, rifeses sugar c. Only a d. All of the above 19. Engangen shae, Phosphoric acid, rifeses sugar c. Only a d. All of the above 19. Engangen shae, Phosphoric acid, rifeses sugar c. Only a d. All of the above 19. Engangen shae, Phosphoric acid, rifeses sugar c. Only a d. All of the above 19. Engangen shae, Phosphoric acid, rifeses sugar c. Only a d. All of the above 19. Engangen shae, Phosphoric acid, rifeses sugar c. Only a d. All of the above 19. Engangen shae, Phosphoric acid, rifeses sugar c. Only a d. All of the above 19. Engangen shae, Phosphoric acid, rifeses and rifeses				
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	20.	a. HPLC		

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## [Descriptive]

Time: 2 hrs. 30 min. Marks: 50

## [ Answer question no.1 & any four (4) from the rest ]

10 1. Define Enzyme, Nucleoside and Nucleotide. Write the difference between competitive and non competitive inhibitor. Draw a structure of GMP. 10 2. Define acid, base and salt and give classification with examples. Also define electrolyte with a diagram for preparation in a laboratory. 10 3. Write about colorimeter and its principle. Also define water balance and water output. 10 4. Write about pentose sugar and draw a diagram with examples. Draw the structure of pentose sugar of ribose and deoxyribose. 10 5. Write the difference between DNA and RNA. Draw a structure of double helical structure of DNA. 10 6. What is enzyme and coenzyme. Give the classification of enzyme with examples. 10 7. Write about enzyme substrate complex with a diagram. Give the properties of enzyme. 8. Give the properties of water and explain the chemical structure 10 water with a diagram .

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