

BACHELOR IN MEDICAL LABORATORY TECHNOLOGY
FIRST SEMESTER
BIOCHEMISTRY-I
BMLT-103

[USE OMR SHEET FOR OBJECTIVE PART]

**SET
A**

Duration: 3 hrs.

Full Marks: 70

Time: 30 mins.

(Objective)

Marks: 20

Choose the correct answer from the following:

1×20=20

- Name the amino acid that is associated with DNA
 - Collagen
 - Histones
 - Gamma Glutamic acid
 - None of the above
- Glucose is called
 - Corn sugar
 - Dextrose
 - Grapes sugar
 - All of the above
- Gastrin is produced by
 - Mouth
 - intestine
 - Stomach
 - Pancreas
- Which of the following is not a reducing sugar
 - Glucose
 - Lactose
 - Maltose
 - sucrose
- Name the method for determining cholesterol level
 - CHOD/POD
 - POD
 - End point
 - None of the above
- Normal range of high cholesterol is
 - 200 mg/dl
 - >240 mg/dl
 - 140 mg/dl
 - None of the above
- Which is known as aldoses
 - Fructose
 - Glucose
 - Sucrose
 - Dehydroxy acetone
- Protein most abundant in our body is
 - Collagen
 - Myosin
 - Actin
 - Albumin
- Amino acids are joined by
 - Peptide bond
 - Hydrogen bond
 - Ionic bond
 - Glycosidic bond

10. Which one is a storage protein
- | | |
|------------|--------------|
| a. Actin | b. myosin |
| c. insulin | d. ovalbumin |
11. Lipids is soluble in organic solvents like
- | | |
|------------|----------------------|
| a. alcohol | b. water |
| c. Oil | d. None of the above |
12. Glycerol phospholipids contains
- | | |
|------------------------|----------------------|
| a. Glycerol as alcohol | b. Nitrogenous bases |
| c. Phosphate | d. None of the above |
13. Name the anticoagulant that is used in serum test
- | | |
|--------------------|-------------------|
| a. Lavender | b. Sodium citrate |
| c. Sodium fluoride | d. Clot vial |
14. Lipids acts as a fat soluble vitamin , name the vitamin
- | | |
|--------------|---------------|
| a. vitamin A | b. Vitamin C |
| c. vitamin B | d. vitamin B1 |
15. Name the protein deficiency disorder
- | | |
|----------------------|---------------------|
| a. Marasmus | b. Kwashiorkor |
| c. Nutritional edema | d. All of the above |
16. What is the chemical formula of carbohydrate
- | | |
|------------------|---------|
| a. $C_n(H_2O)_n$ | b. CHO |
| c. CH_2O | d. CCHO |
17. What is the Chemical formula of glucose
- | | |
|--------------------|-------------------|
| a. $C_{12}H_{11}C$ | b. $C_6H_{12}O_6$ |
| c. CHO | d. none |
18. Amino acids are building block of which molecules
- | | |
|------------------|-------------|
| a. Carbohydrates | b. lipids |
| c. Proteins | d. vitamins |
19. Instrument used for sterilization is
- | | |
|-----------------|---------------------|
| a. Hot air oven | b. centrifuge |
| c. Refrigerator | d. Laminar air flow |
20. Which biomolecule simply refers as "Staff of life" in the given
- | | |
|------------------|-------------|
| a. Protein | b. lipids |
| c. carbohydrates | d. vitamins |

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(Descriptive)

Time : 2 hrs. 30 mins.

Marks : 50

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

1. Write the properties and reaction of carbohydrate. 10
2. Write the amino acids based on classification of nutrition 10
3. What are the properties of amino acids ? What are the reaction of Monosaccharides. 10
4. What is carbohydrates and write the function of carbohydrates. 10
5. Write about the bonds responsible for protein structure. 10
6. What is lipids and write the biological importance of lipids? 10
7. Write a notes on fatty acids. 10
8. What do you mean by Tautomerization ? Name the amino acids that are useful in drugs. 10

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