REV-01 BMLT/23/28

> BACHELOR OF MEDICAL LABORATORY TECHNOLOGY FOURTH SEMESTER **BIOCHEMISTRY IV**

2023/06

Full Marks: 70

BMLT-403 [USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

(Objective)

Time: 30 min. Marks: 20

Choose the correct answer from the following:

 $1 \times 20 = 20$

1. Vitamin C deficiency cause:

a. Scurvy c. Both of the above

b. Bleeding from teeth d. None of the above

2. Beri beri is cause by:

a. VitB 1 c. Vit. K

b. Vit. C d. Vit. D

3. The course code for fourth semester BMLT Biochemistry is:

a. BMLT 402

b. BMLT 303 d. BMLT502

c. BMLT 403

4. Clothing of blood is:

b. Vit D

a. Vit A c. Vit.K

d. None of the above

5. Bitots spots caused due to deficiency of:

a. Vit.A

b. Vit.D

c. Vit.C

d. None of the above

Riboflavin is a part of:

a. Vit.A

b. Vit. B complex

c. Vit.K

d. None of the above

7. RDA is:

a. Recommended Dietary Allowances c. Recommended Diet Allowances

b. Recommended Daily Allowances d. None of the above

8. Vit. E is: a. Fat soluble vitamin

c. Both of the above

b. Water soluble vitamin

9. Calcium is:

a. Microminerals

c. Both of the above

b. Macrominerals

d. None of the above

d. None of the above

10.	Zinc is a : a. Macrominerals c. Both of the above	b. Micromineralsd. None of the above
11.	a. Sodium c. Calcium	lume and blood pressure. b. Potassium d. None of the above
12.	Excessive intake of calcium in our diet resula. Diarrhoea c. Kidney stones	ts in b. Constipation d. None of the above
13.	Which of the following is example of macro a. Sodium c. Chloride	minerals? b. Calcium d. All of the above
14. V	Which of the following minerals controls gro a. Iodine c. Phosphorous	wth and body weight? b. Calcium d. All of the above
15. V	Which organ is affected due to the deficiency a. brain c. Stomach	of serotonin? b. Heart d. Kidney
16. V	Which of the following act as precursor for the a. Pyruvate c. Serotonin	ne synthesis of melatonin? b. Acetyl-CoA d. Lactate
17.	When molecules are being built by chemical a. Anabolism c. Fermentation	reaction it is called: b. Catabolism d. Resperation
18.	Blood urea is decreases in all of the followin a. Liver cirrhosis c. Renal failure	g conditions, except b. Pregnancy d. Urea
19. /	Amino acid that involves both gluconeogene a. 4-Hydroxyphenylpyruvate hydroxylase c. Phenylalanine hydroxylase	b. Homogentisate oxidased. Fumarylacetoacetate hydrolase
20. <i>A</i>	Amino acid that involves both gluconeogene a. Phenylalanine c. Serine	b. leucine d. Isoleucine

[2]

USTM/COE/R-01

$\big(\,\underline{\text{Descriptive}}\,\big)$

Time: 2 hrs. 30 min. Marks: 50

[Answer question no.1 & ar	v four (4) from the rest i
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1.	Define vitamins and minerals with classification. Give source, metabolism and laboratory test for Vit. D and Vit. B1	10
2.	Give two examples of sulfur containing amino acids. Write down 5 importance of Methionine. Explain Methionine metabolism cycle	10
3.	Describe the pathway of catabolism of Tyrosine. Elaborate different metabolic disorders associated with catabolism of phenylalanine and tyrosine.	10
4.	Define metabolism and give the relation with amino acid pool. Explain metabolism steps of cysteine.	10
5.	Give end product of catabolism of tryptophan, tyrosine and phenyl alanine	10
6.	Describe Vitamin B complex in detail in reference to source, function, metabolism, any deficiency and laboratory test.	10
7.	Write a note on metabolism on catecholamine , dopamine and serotonine in the human body.	10
8.	What is the difference between macro minerals and micro minerals? Explain the important roles of all macro and micro minerals in our body.	10

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