REV-01 BMLT/05/10

BACHELOR OF MEDICAL LABORATORY TECHNOLOGY

SECOND SEMESTER **BIOCHEMISTRY II**

BMLT-203 [REPEAT] JUSE OMR SHEET FOR OBJECTIVE PARTI

Duration: 3 hrs.

Full Marks: 70

Objective)

Choose the correct answer from the following:

Marks: 20 $1 \times 20 = 20$

2024/06

RNA

Time: 30 min.

brings about protein synthesis in the

the primer essential for starting

replication of DNA.

b. genetic material of certain viruses.

d. All of the above

2. Example of purines

a. adenine and guanine

c. adenine and thymine

b. thymine and cytosine d. cytosine and guanine

3. The process in which the separated complementary DNA strands can form a double

helix

a. Renaturation

b. Denaturation

c. Configuration

d. genetic information.

According to Chargatt's rule which complementary base pairing proves to be true

a. A=T&G=C

b. A=U&G=C

c. A G&C=U

d. C=T&A=U

5. What facilitates the regulation of the quantity of water in the vapor generator

a. control valve

b. filter

e. condenser

d. water level gauge

6. In DNA which pyrimidine is present

a. Thymine and Cytosine

b. Cytosine and Uracil

c. Adenine and Cytosine

d. Guanine and Cytosine

7. The term nucleoside refers to

a. Base + phosphate

b. Nucleoside + sugar

c. Phosphate + sugar

d. Nitrogenous bases + sugar

Enzyme inhibitor is defined as a substance which binds with the enzyme and brings about

decrease in catalytic activity of the

enzyme.

c. Competitive inhibition.

b. increase in catalytic activity of the

d. Non-competitive inhibition.

9.	The functional unit of the enzyme is known a. holoenzyme c. apoenzyme	b.	coenzyme multienzyme
. 10.	are portable, inexpensive pH met a. Pen tester c. Benchtop pH meters	b.	the size of a pocketbook. Handheld meters None
11.	According to this law the amount of light al concentration present in solution. a. Beer's law c. Chargaff's rule	b.	bed is proportional to the solute Lambert's law None
12.	Scientist Arnold J. Beckman and his colleage Laboratory (NTL) invented the Beckman DU a. 1940 c. 1950	U sp b.	
13.	Samples to be studied in the ultraviolet (or) solutions and are put in cells known as a. Cuvettes c. Test tube	b.	ible region are usually glasses (or) Glass tube All of the above
14.	A device that allows water flow toward the mechanically or electromechanically. a. control valve c. condenser	b.	oor generator tank to be controlled filter water level gauge
15.	Which can only produce 1 gallon of water a a. Manual distiller system c. Both a and b	b.	ce Automated distiller system None of the above
16.	Enzymes involved in oxidation-reduction rea. Oxidoreductases c. Hydrolases	b.	ions. Lyases Isomerases
17.	The inhibitor binds non-covalently with enzewersed if the inhibitor is removed a. Reversible inhibition. c. Allosteric inhibition.	b.	e and the enzyme inhibition can be Irreversible inhibition. Competitive inhibition.
18.	At this stage the metal ions that were in the a. Desolvation c. Atomisation	b.	vent are reduced to metal atoms. Vapourisation Excitation
19,	The number of moles (or millimoles) per lite a. Osmolarity c. Osmosis	b.	f solution. Osmolality All of the above

2 USIM/COE/R-01

20. In a healthy individual, the urine output is about

a. 1-2 l/day.c. 2-3 l/day.

b. 3-4 I/day.d. 4-5 I/day.

3 USTM/COE/R-01

$\left(\underline{\text{Descriptive}} \right)$

Time: 2 hrs. 30 min.

Marks: 50

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

1.	Describeabout the water distillation apparatus.	10
2.	Define Nucleic acids. Write its functions. Who discovered Watson and crick model. Write the salient features.	2+8=10
3.	Write a note on Spectrophotometer.	1+4+5 =1(
4.	Define enzymes with its classification with suitable examples. Write the mechanisms of action of enzyme catalysis.	1+4+2+3 =10
5.	Discuss the important clinical importance and applications of enzymes. Define active site. Write its salient features.	2+8=10
6.	Explain about water balance.	10
7.	Explain about electrolyte balance.	5+5=10
8.	Give the principle of ph meter. Explain its working, applications, advantages and disadvantages.	8+2=10

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