

Subject : CHEMISTRY DPP No. : 2 Class: XIIth

Date:

Topic :- Biomolecules

1.	Sodium dodecyl benze a) Pesticide	ne sulphonate is used as b) Soap	s a: c) Fertilizer	d) Detergent
2.	The reaction of glucose with red P + HI is called: a) Sandmeyer's reaction b) Reformatsky reaction c) Gattermann's reaction d) Reduction			
3.	Which base is present a) Uracil	in RNA but not in DNA? b) Cytosine	c) Guanine	d)Thymine
4.	What is not a hexose? a) Glucose	b) Ribose	c) Fructose	d) Galactose
5.	Which functional group a) Thiolacetone	p par <mark>ticip</mark> ates in disulph b) Thiol	nide bond formation in p c) Thioether	oroteins? d)Thioester
6.	Washing soap can be p a) Rose oil	repared by saponification	on with alkali and: c) Groundnut oil	d) Kerosene oil
7.	Deoxyribonucleic acid a) Peptides	(DNA) consists of the fo	ollowing units: c) Nucleotides	d) Deoxyribose
8.	Fatty acid is to fat as gl a) Cellulose	ucose is to b) Glycogen	c) Starch	d) All of these
9.	Which one of the following statements is true? a) Saponification of oil yields a diol b) Drying of oil involves hydrolysis c) Addition of antioxidant to oil minimizes rancidity d) Refining of oil involves hydrogenation			

- $10. \ \ In \ aqueous \ solution, amino acids mostly exist as$
 - a) NH₂ —CHR —COOH

b) NH₂ — CHR — COO-

c) + N H₃—CHR—COOH

- d) $^+_{N H_3}$ —CHR—COO-
- 11. In both DNA and RNA, heterocylic base and phosphate ester linkages are at
 - a) C_5' and C_1' respectively of the sugar molecule
 - b) C'_1 and C'_5 respectively of the sugar molecule
 - c) C'_2 and C'_5 respectively of the sugar molecule
 - d) C_5' and C_2' respectively of the sugar molecule
- 12. The chemical name of vitamin C is
 - a) Nicotinic acid
- b) Folic acid
- c) Tartaric acid
- d) Ascorbic acid

- 13. Mutarotation doesn't occur in
 - a) Sucrose
- b) D-glucose
- c) L-glucose
- d) None of these

- 14. Deficiency of vitamin B₁ causes the disease:
 - a) Cheilosis
- b) Sterility
- c) Convulsions
- d) Beri-Beri

- 15. What is not true for carbohydrates?
 - a) General formula is $C_nH_{2n}O_n$
 - c) Fructose is the sweetest of all sugars
- b) Glucose is the most common monomer of carbohydrates
- d) Do not conjugate with lipids

- 16. Main constituent of plants is
 - a) Cellulose
- b) Starch
- c) Fructose
- d) Lipids

- 17. Paraffin wax is not used:
 - a) In making candles
 - b) As a coating on paper
 - c) In greases
 - d) As a stiffening agent in cosmetic creams
- 18. Pancreatic juice contains the enzyme:
 - a) Zymase
- b) Invertase
- c) Diastase
- d) Lipase

- 19. Reverse transcription was discovered by
 - a) Watson and Crick
- b) Khorana
- c) Temin and Baltimore d) Beadle and Tatum

20. A tripeptide is written as glycine-alanine–glycine. The correct structure of the tripeptide is

a)
$$H_2N$$

O

CH₃

N

N

N

COOH

N

CH₃

N

COOH

COOH

N

COOH

C