

Class: XIth
Date:

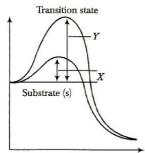
Subject: BIOLOGY
DPP No.: 3

	Topic :- Biomolecules							
1.	A fatty acid has a carboxy a) Methyl Higher number of — C carbons)		group. The R grou b) Ethyl d) All of the abov	p could be a				
2.	With reference to enzy a) Apoenzyme=Holoen c) Coenzyme=Apoenzy	zyme+Coenzyme	b) Holoenzyme	g statements is true? oenzyme=Apoenzyme+Coenzyme oenzyme=Coenzyme+Apoenzyme				
3.	Benedict's reagent test a) Polysaccharides like c) Reducing sugars		firm the presenc b) Lipids d) Proteins	e of				
4.	When a metabolic disequilibrium is in effect, then only cells continue to function How do cells avoid reaching metabolic equilibrium? a) Use feedback inhibition to turn off pathways b) The products of one reaction become the reactant of another reaction and are unable to accumulate c) Cellular metabolism utilises only those reactions that are irreversible d) Providing constant supply of enzymes							
5.	Which of the following radioisotope is not suitable for DNA labeling based studies? S^{35}							
	a) H ³ b	P^{32}	c) N ¹⁵	d) Soc				
6.	Jacob and Monod name a) End product b	ed some enzymes as) Substrate	allosteric, whose c) A by-product	-	egulated by nzyme			
7.	dentify the term 'ash' in term of living tissue sample analysis from the statements given below Organic compounds oxidised to gaseous b) The material left after burning the tissue which contains inorganic elements (<i>e.g.</i> , calcium, magnesium etc.) c) Compounds removed in the form of gases d) Compounds which may be soluble in							

intracellular fluid

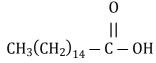
8.	Grinding of a living tissue in trichloroacetic acid shows the presence of the inorganic compounds like sulphate, phosphate etc, which are categorised in a) Acid insoluble fraction b) Acid soluble fraction c) Both (a) and (b) d) Not found in cellular pool					
9.	Formation of lactic acid form					
	a) 25 b) 5	-	c) 30	d)10		
10.	. A nucleotide has three chemically distinct compounds. These are A, B and C Choose the correct option for A, B and C a) A-Sugar, B-carbonates, C-chlorides b) A-DNA, B-cellulose, C-chitin c) A-Heterocyclic compound, B-Monosaccharide, C-a phosphate d) A-Phosphoric acid, B-Proteins, C-acids					
11.	Answer briefly I. Hydrolysis of glycogen to g II. Name the enzyme which t III. Amylum is an another na IV. Name the polysaccharide Correct option with all the a a) I-Glycogenolysis, II-Amyla Starch c) I-Starch, II-Glycogenolysis Amylases	takes part in the hydene of e formed as the end parts is ases, III-Starch, IV-	rolysis of glycogen product of the photosyr	, III-Glycogenolysis, IV		
12.	Which of the following is a a) Peptone b) Pl		rotein? c) Lipoprotein	d) Chromoprotein		
13.	a) Collagen b) To		e biosphere c) Insulin	d) RUBISCO		

14. Choose the correct option representing X and Y in the given graph



- a) X-Activation energy without enzymes, Y-Activation energy with enzyme
- c) X-Substrate concentration with enzyme, Y-Substrate concentration without enzyme
- b) X- Activation energy with enzyme, Y-Activation energy without enzyme
- d) X-Substrate concentration without enzyme, Y-Substrate concentration with enzyme

15. Given below is the chemical formula of



- a) Palmitic acid
- b) Stearic acid
- c) Glycerol
- d) Galactose

16. Which enzyme is useful as colour brightening agent in detergent industry?

- a) Amylase
- b) Lipase
- c) Protease
- d) Cellulase

17. Locations or sites in the human DNA where single base DNA differences occur, are called

a) Repetitive DNA

b) VNTR

c) SNP

d) SSCP

18. An organic substance bound to an enzyme and essential for its activity, is called

- a) Coenzyme
- b) Holoenzyme
- c) Apoenzyme
- d) Isoenzyme

19. Choose the correct statements

I. Bond energy (ATP) is utilised for biosynthesis, osmotic and mechanical work that we perform

II. When glucose is degraded into lactic acid in our muscles, energy of liberated

III. Assembly of a proteins from amino acids requires energy

IV. Majority of metabolic reactions can occur in isolation

V. There are many examples of uncatalysed metabolic reactions

- a) Except IV and V
- b) I and III
- c) All of these
- d) None of these

- 20. Maltose consists of which one of the following?
 - a) β glucose and α galactose
- b) α glucose and α fructose
- c) α sucrose and β glucose
- d) Glucose and glucose

