

Subject · RIOI OCV

	Date:	DPP No. : 3
	Topic :- Bion	nolecules
1.	a) Methyl b	The R group could be a) Ethyl) All of the above
2.	a) Apoenzyme=Holoenzyme+Coenzyme	ng statements is true? Holoenzyme=Apoenzyme+Coenzyme Holoenzyme=Coenzyme+Apoenzyme
3.	a) Polysaccharides like starch	he presence of) Lipids) Proteins
4.	 When a metabolic disequilibrium is in effect, then only How do cells avoid reaching metabolic equilibrium? a) Use feedback inhibition to turn off pathways b) The products of one reaction become the reactant c) Cellular metabolism utilises only those reactions to the providing constant supply of enzymes 	of another reaction and are unable to accumulat
5.	Which of the following radioisotope is not suitab	le for DNA labeling based studies?
	a) H ³ b) P ³² c)	N^{15} d) S^{35}
6.		eric, whose activi <mark>ty is reg</mark> ulated by A by-product d) Coenzyme
7.	Organic compounds oxidised to gaseous form by a) (CO ₂ and water vapour) after burning of the tissue	
8.	 Grinding of a living tissue in trichloroacetic acid show 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 glucose occurs in met	abolic steps



Smart DPPs

a) 25

b) 5

c) 30

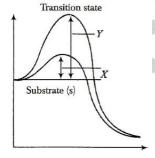
d) 10

- 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 glucose is termed as?
 - II. Name the enzyme which takes part in the hydrolysis of glycogen
 - III. Amylum is an another name of
 - IV. Name the polysaccharide formed as the end product of the photosynthesis

Correct option with all the answers is

- a) I-Glycogenolysis, II-Amylases, III-Starch, IV-Starch
- c) I-Starch, II-Glycogenolysis, III-Starch, IV-Amylases
- b) I-Starch, II-Amylases, III-Glycogenolysis, IV-Starch
- d) I-Amylases, II-Glycogenolysis, III-Starch, IV-Starch
- 12. Which of the following is not a conjugated protein?
 - a) Peptone
- b) Phosphoprotein
- c) Lipoprotein
- d) Chromoprotein
- 13. is the most abundant protein in whole of the biosphere
 - a) Collagen
- b) Trypsin
- 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

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 $\begin{array}{c} ||\\ \mathrm{CH_3}(\mathrm{CH_2})_{14} - \mathrm{C} - \mathrm{OH} \end{array}$

- 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

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