

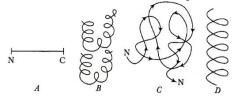
Class: XIth Date:

Subject: BIOLOGY

DPP No.: 1

Topic :- Biomolecules

Which kinds of structures of proteins are shown in the figures given below 1.



- a) $A = 1^{\circ}$ structure, $B = 2^{\circ}$ structure, $C = 3^{\circ}$ structure, $D = 4^{\circ}$ structure
- b) $A = 4^{\circ}$ structure, $B = 2^{\circ}$ structure, $C = 3^{\circ}$ structure, $D = 1^{\circ}$ structure
- c) $A = 1^{\circ}$ structure, $B = 4^{\circ}$ sstructure, $C = 3^{\circ}$ structure, $D = 2^{\circ}$ structure
- A = 4° structure, B = 3° structure, C = 2° structure, D = 1° structure
- Lipid are found in acid insoluble fraction during the analysis of chemical composition of tissues. Given the reason
 - a) It has very high molecular weight
 - b) It is polymer
 - c) It has low molecular weight
 - d) On grinding, the biomembranes are broken into pieces and form insoluble vesicles
- Choose the element which is negligible in living matter

b) Mg

c) Ca

d) S

- Name the plant pigments present in the following
 - I. Carrots
 - II. Tomatoes
 - a) I-Tycopene II-Carotene c) I-Leucopene II-Carotene

- b) I-Carotene II-Lycopene
- d) None of the above

Which one of the following structural formulae of two organic compounds is correctly identified along with its related function?

Smart DPPs

- a) A- Triglyceride major-Source of energy
- b) B- Uracil
- -A component of DNA
- c) A-Lecithin
- -A component of cell membrane
- d) B-Adenine
- -A nucleotide that makes up nucleic acids
- 6. Silk consists of
 - a) Central core of sericin
 - c) Both (a) and (b)

- b) Central core of fibroin
- d) A fine mixture of fibroin and sericin
- 7. Which statement regarding coenzyme is incorrect?
 - a) Every coenzyme is a cofactor and every cofactor is a coenzyme
 - b) Every coenzyme is a cofactor but every cofactor is not a coenzyme
 - c) Most of the coenzymes are nucleotides and are composed of vitamins
 - d) Coenzymes are the active constituents of enzymes
- 8. The rate of the reaction doubles or decreases by half, for every... °C change in either direction
 - a) 10°

b) 15°

c) 20°

- d) 27°
- 9. Enzyme often have additional parts in their structures that are made up of molecules other than proteins. When this additional chemical part is an organic molecule, it is called
 - a) Cofactor
- b) Coenzyme
- c) Substrate
- d) Both (a) and (b)

- 10. Which one is imino acid?
 - a) Pepsin
- b) Proline
- c) Cysteine
- d) Rennin
- 11. The sum total composition of acid soluble and acid insoluble fraction pool represents the
 - a) Molecular
- b) Dead cells
- c) Gene library
- d) Cellular pool
- 12. The 'lock' and 'key' model of enzyme action illustrates that a particular enzyme molecule
 - a) May be destroyed and resynthesised several times
 - b) Interacts with a specific type of substrate molecule
 - c) Reacts at identical rates under all conditions
 - d) Forms a permanent enzyme-substrate complex
- 13. Acidic amino acids carry two -COOH and one -NH₂ groups per molecule. Keeping this in mind, select

Smart DPPs

	the correct pair of acidic amino acid a) Lysine and arginine c) Glycine and alanine	b) Aspartic acid and glutad) Both (a) and (b)	amic acid
14.	After doing the chemical analysis of organic compositions of served namely a) Acid soluble pool and acid insoluble pool b) Carbon pool and hydrogen pool c) Inorganic pool and organic pool d) Aquous pool and non-aquous pool	ounds found in living orga	nisms, two fractions were
15.	Which one is not an example for hydrolases? a) Dehydrogenase b) Protease	c) Amylase	d) Esterase
16.	Which type of protein is present in human skin? a) Primary proteins c) Tertiary proteins	b) Secondary proteins d) Quarternary proteins	
17.	The metabolic flow is called a) Dynamic state of body constituents b) Flow of traffic junctions c) Turn over flow d) Adiabatic flow of reactions		
18.	Read the two reaction A and B given below and sel A. ADP + Pi → ATP B. ATP → ADP + Pi a) A-Endergonic; B-Exergonic b) A-Exergonic; B-Endergonic c) A-Endergonic; B-Endergonic d) A-Exergonic; B-Exergonic	ect the correct option acco	ordingly
19.	The pyrimidine base, which confers additional a) Adenine b) Guanine		
20.	If the total amount of adenine and thymine in a amount of guanine in this DNA will be a) 15% b) 20%	a double-stranded DNA	is 60%, then the