# **NEW STANDARD ACADEMY**

## SEMRI KOTHI SUPER MARKET, RAEBARELI

## CLASS 11 (Biology) DPP (Academy)14-05-2024

1.	Sugars are technically called carbohydrates, reference formulae are only multiple of C(H2O). Hexoses twelve hydrogen and six oxygen atoms. Glucose among from the following another hexose.	therefore have six carbons
	a) Fructose	b) Erythrose
	c) Ribulose	d) Ribose
2. When you take cells or tissue pieces and grind with an acid in a mor pestle, all the small biomolecules dissolve in the acid. Proteins polysaccharides and nucleic acids are insoluble in mineral acid and a precipitated. The acid soluble compounds include amino acids nucle small sugars etc. When one adds a phosphate group to a nucleoside another acid soluble biomolecule called		e acid. Proteins in mineral acid and get de amino acids nucleosides
	a) Nitrogen base	b) Adenine
	c) Sugar phosphate	d) Nucleotide.
3.	When we homogenise any tissue in an acid the a a) Cytoplasm	acid soluble pool represents b) Cell membrane
	c) Nucleus	c) Mitochondria
4.	The most abundant chemical in living organism a) Protein	ns could be b) Water
	c) Sugar	d) Nucleic acid
5.	Glycogen is a homopolymer made of a) Glucose units	b) Galactose units
	c) Ribose units	d) Amino acids
6.	Which of the following set consists of non – reducing disaccharides?	

	a) Sucrose and galactose	b) Maltose and cellobiose
	c) Sucrose and treholose	d) Sucrose and cellobiose
7.	Find the odd one out with respect to the a) Cellulose	ir monomers: b) Glycogen
	c) Starch	d) Inulin
8.	Which of the following derivative of cea a) Cellulose xanthate	llulose is used as artificial silk? b) Cellulose acetate
	c) Cellulose nitrate	d) Carboxymethyl cellulose
9.	Polysaccharides are the component of a) Cell wall in plants	b) cell wall in fungi
	c) Exoskeleton of arthropods	d) All of these
10.	10. A trilyceride has 3 fatty acids. The number of fatty acids in the phosphol lecithin is	
	a) 2	b) 0
	c) 3	d) 1

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### CLASS 12 (Biology) DPP (Academy)14-05-2024

1.	The enzyme DNA dependent RNA polymerase catalyzes the		
	polymerization reaction in	direction	
	a) Only 5'-3'	b) Only 3'-5'	
	c) Both a) and b)	d) None of these	
2.	Claver leaf model of tRNA was suggested by		
	a) Went	b) Fleming	
	c) Holley	d) Meselson	
3.	Select an incorrect statement		
	a) RNA was the first gentic material.		
	b) Essential life processes evolved DNA.		
	c) RNA used to act as a ger post.	netic material as well as a catalyst in the	
	d) Some biochemical reactions in living systems are catalysed by RNA catalysts.		
4.	In proksryotes 23 S rRNA is synthesized by		
	a) RNAP	b) RNAP-I	
	c) RNAP –II	d) RNAP -III	
5.	RNA polymerase II transcribes		
	a) hnRNA	b) 50S tRNA	
	c) 30S tRNA	c) 40S tRNA	
6.	Which of the following rRNAs acts as structural RNA as well as ribozyme in bacteria?		
	a) 5S rRNA	b) 18SrRNA	
	c) 23SrRNA	d) 5.8 rRNA	

- 7. With regard to mature mRNA in eukaryotes, which statement is correct?
  - a) Both exons and introns are absent
  - b) Both exons and introns are present
  - c) Exons present and introns absent
  - d) Introns Present, Exons absent
- 8. Gerorge beadle and Edward Tatum in the early 1940s worked on the
  - a) Drosophila

b) Neurospora crassa

c) Pisum sativum

- d) Lathyrus sativus
- 9. Lactos operon produces enzymes
  - a)  $\beta$  galactosidase, permease and glycogen synthetase
  - b)  $\beta$  galactosidase, permease and transacetylase
  - c) permease and glycogen synthetase and transacetylase
  - d)  $\beta$  galactosidase, phosphoglucose ,isomerase and permease
- 10. The three codons which result in the termination of polypeptide chain synthesis are
  - a) UAA,UAG,GUA
  - b) UAA, UAG,UGA
  - c) UAA,UGA,UUA
  - d) UGU UAG,UGA