

Jars Education

Shop no. 2,3,4 hendre pada Badlapur west thane

Time : 1 hour 15 Minute S		STD 11 Science Biology Chapter Based Test		Total Marks : 40
		SECTION A		
*	Choose The Right Answer From The Given Options.[1 Marks Each]			
1.	In chloroplasts, chlorophyll is p	resent in the.		
	(A) Outer membrane.(C) Thylakoids.		Inner membrane. Stroma.	
2. 3.	Organelle/organoid involved in (A) Plasmid. (C) Golgi apparatus. Amino acids are also known as	(B) (D)	is: Mitochondrion. Lomasome.	
4.	(A) α -amino acid. (B) β -amino acid. (C) γ -amino acid. (D) δ -amino acid. The fact that all biomolecules u	ndergo turnover is kr	nown as:	
	(A) Catabolism.(C) Metabolism.	(D)	Anabolism. All of the above.	
5. (Which of the following is not a (A) Uracil (B) Cyto		Guanine	(D) Thymine
*	Answer The Following Questions In O <mark>ne Sent</mark> ence.[1 Marks Each] [6]			
6.	What is c <mark>ell theory?</mark>			
7.	a. Which cell organelle is also called power house of the cell?b. How are these cell organelles reproduced?			
8.	What is a polysome? What is its function?			
9.	i. What is the function ofii. How many times does			tion?
10.	Give one example each of. i. An acidic amino acid. ii. A basic amino acid.			
11.	Define metabolism.			
		SECTION B		
*	Given Section consists of que	estions of 2 marks e	ech.	[10]
[1]				

- 1. What is a mesosome in a prokaryotic cell? Mention the functions that it performs.
- 2. Attempt titrating an amino acid against a weak base and discover the number of dissociating (ionizable) functional groups in the amino acid.
- 3. Starch, cellulose, glycogen, chitin are polysaccharides. From the options below, choose the one appropriate and write against each.
 - Cotton fibre _____.
 - Exoskeleton of cockroach _____.
 - Liver _____.
 - Peeled potato _____
- 4. About the structure of DNA molecule, answer the following questions:
 - i. How many hydrogen bonds are formed between.
 - a. Guanine and Cytosine,
 - b. Adenine and Thymine?
 - ii. How many base pairs are present in one twin of the helix of a DNA strand?
 - iii. What is the distance between two successive bases in a DNA strand?
- 5. What is the difference between primary and secondary metabolites?

SECTION C

- * **Given Section consists of questions of 3 marks each.**
- 1. Discuss briefly the role of nucleolus in the cells actively involved in protein synthesis.
- 2. Draw a well-labelled diagram of a typical chloroplast.
- 3. What are proteins? How are proteins formed? Describe the primary, secondary and tertiary structures of proteins.

OR

[9]

[10]

How are proteins formed? Describe the primary, secondary and tertiary structures of proteins.

SECTION E

- * Given Section consists of questions of 5 marks each.
- 1. The genomic content of the nucleus is constant for a given species where as the extra chromosomal DNA is found to be variable among the members of a population. Explain.
- 2. Describe the important properties of enzymes.