

Class: XIth
Date:
Subject: BIOLOGY
DPP No.: 2

	Topic :- Cell t	he Unit of Life				
1.	Chemiosmotic theory of ATP synthesis in the a) Proton gradient c) Accumulation of Na ions	chloroplasts and mitoch b) Accumulation of K d) Membrane potentia	iondria is based on ions			
2.	Polysome is formed by a) Several ribosomes attached to a single <i>m</i> RNA b) Many ribosomes attached to a strand of endoplasmic reticulum c) A ribosome with several subunits d) Ribosomes attached to each other in a linear arrangement					
3.	In eukaryotic cell, plasmodesma is lined by plasma membrane. It encloses tubular extension of endoplasmic reticulum called					
	a) Microtubule b) Microfilament	c) Tubule	d) Desmotubule			
4.	The factors which set the limit of cell size or volume are I. nucleo-cytoplasmic or kern-plasma ratio II. rate of metabolic activity III. ability of oxygen and other materials to reach every part of the cell IV. ability of waste products to pass to the outside V. ratio of surface area to the volume of the cell Identify the correct set of statements					
	a) III and IV b) I and II	c) Only V	d) I, II, III and IV			
5.	The difference between rough endoplasmic rethat rough endoplasmic recticulum a) Does not contain ribosomes c) Does not transport proteins	eticulum and smooth en b) Contains ribosome d) Transport proteins	S			
6.	Cilia are a) Short (5-10 μm) hair-like narrow protoplasmic process b) With sweeping or pendular movements c) More numerous d) All of the above					

7.	The enzyme DNA polymerase was discovered by					
	a) Kornberg	b) Okazaki	c) Watson and Crick	d) Stahl and Meselson		
8.	Plant cells possess a) Cell wall and central vacuole c) Cell wall and plastids		b) Cell wall only d) Cell wall, plastids and large central vacuole			
9.	Which of the following statements are correct? I. Occurrence of different types of tissues, organs and organ system results in division of labour II. A new cell always develops by the division of a pre-existing cells III. Cells are totipotent IV. Cell is the smallest unit, capable of independent existence and performing the essential functions of life The correct option is a) I, II and III b) I, III and IV c) II, III and IV d) I, II, III and IV					
10.	. Which of the following features are correct regarding ribosomes? I. Non-membrane bound II. Absent in plastids and mitochondria III. Present in the cytoplasm and RER IV. Take part in protein synthesis The correct option is a) Only II b) I and II c) I, II, III and IV d) I, III and IV					
11.	In prokaryotic cell, I. enveloped genetic material is present II. ribosomes are absent III. an organised nucleus is absent The correct option is a) Only I b) Only II c) Only III d) I, II and III					
12.	In a DNA molecule, dis a) 2 nm/20Å	tance between two base b) 0.2 nm/2Å	ed is c) 3.4 nm/34Å	d) 0.34 nm/3.4Å		
13.	Antiparallel strands of a DNA molecule means that a) One strand turns anti-clockwise b) The phosphate groups of two DNA strands at their ends, share the same position c) The phosphate groups at the start of two DNA strands are in opposite position(pole) d) One strand turns clockwise					

	14.	Arrange the following steps in a correct sequence as per Gram's staining technique I. Treatment with 0.5% iodine solution					
		II. Washing with water					
		III. Treatment with absolute alcohol/acetone					
		IV. Staining with weak alkaline solution of crystal violet					
		The correct sequence is					
		a) II→I→IV→III	b) IV→I→II→III	c) III \rightarrow II \rightarrow IV	$d) I \rightarrow IV \rightarrow III \rightarrow II$		
	15.	In eukaryotes, basic structural unit made up of histone and DNA is					
		a) Nucleosome	b) Nucleolus	c) Chromosome	d) Lysosome		
	16.	6. Choose the correct statement from the codes given below					
	I. Separation from extracellular medium allows the cells to maintain its chemic						
		orderliness of structur	e and reactions in contr	ast to disorderly distrib	ution and randomly		
		interacting molecules	in the extra-cellular med	lium			
		II. Cells are unable to recognise one another due to the present of specific chemicals on their					
		surface					
		cytoplasmic bridges					
	IV. Different cells of an organism communi-				ate as well as exchange materials with one another		
		a) II and III	b) I and II	c) I, III and IV	d) I, II, III and IV		
	17.	DNA multiplication is	called				
		a) Translation	b) Replication	c) Transduction	d) Transcription		
	18.	Ribosomes are found i	n				
		a) Cytoplasm and nucleus c) Mitochondria and bacterial cell		b) Golgi complex and nucleus d) Endoplasmic reticulum and Golgi complex			
	19.	In protoplasm, fat stor	e in the form of				
		a) Polypeptide	b) Triglyceride	c) Polysaccharide	d) Nucleoside		
	20.	Spindles are formed by	V				
		a) Microtubules	,	b) Endoplasmic reticul	um		
		c) Golgi body		d) Peroxisomes			
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