CLASS 9

SUBJECT – SCIENCE

CHAPTER – CELL: THE FUNDAMENTAL UNIT OF LIFE CONCEPT – CELL: THE FUNDAMENTAL UNIT OF LIFE WORKSHEET – 3 MCQ

Q1	Which of the following can be made into crystal?	1	
	a) A Bacterium b) An Amoeba		
	c) A Virus d) A Sperm		
Q2	A cell will swell up if	1	
	a) The concentration of water molecules in the cell is higher than the		
	concentration of water molecules in surrounding medium		
	b) The concentration of water molecules in surrounding medium is		
	higher than water molecules concentration in the cell		
	c) The concentration of water molecules is same in the cell and in the		
	surrounding medium d) Concentration of water molecules does not matter		
Q3		1	
	Chromosomes are made up of a) DNA b) Protein	1	
	c) DNA and protein d) RNA		
Ω 4	Which of these options are not a function of Ribosomes?	1	
Q4	(i) It helps in manufacture of protein molecules	1	
	(i) It helps in manufacture of enzymes		
	(iii) It helps in manufacture of enzymes (iii) It helps in manufacture of hormones		
	(iv) It helps in manufacture of starch molecules		
	a) (i) and (ii) b) (ii) and (iii)		
	c) (iii) and (iv) d) (iv) and (i)		
Q5	Which of these is not related to endoplasmic reticulum?	1	
	a) It behaves as transport channel for proteins between nucleus and	•	
	cytoplasm		
	b) It transports materials between various regions in cytoplasm		
	c) It can be the site of energy generation		
	d) It can be the site for some biochemical activities of the cell		
Q6	Following are a few definitions of osmosis	1	
	Read carefully and select the correct definition		
	a) Movement of water molecules from a region of higher		
	concentration to a region of lower concentration through a		
	semipermeable membrane		
	b) Movement of solvent molecules from its higher concentration to		
	lower concentration		
	c) Movement of solvent molecules from higher concentration to		
	lower concentration of solution through a permeable membrane		
	d) Movement of solute molecules from lower concentration to higher		
	concentration of solution through a semipermeable membrane		
Q7	Plasmolysis in a plant cell is defined as	1	
	a) Break down (lysis) of plasma membrane in hypotonic medium		
	b) Shrinkage of cytoplasm in hypertonic medium		
	c) Shrinkage of nucleoplasm		
	d) None of them		

Q8	Which of the following are cover	red by a single membrane?	1	
	a) Mitochondria			
	b) Vacuole			
	c) Lysosome			
	d) Plastid			
Q9	Find out the false sentences		1	
		ed with the formation of lysosomes		
		nd plastid have DNA; hence they are able		
	to make their own structu	÷		
		e the power house of the cell as ATP is		
	generated in them.			
0.10	d) Cytoplasm is called as pr	rotoplasm		
Q10	Find out the correct sentence		1	
	· • • •	somes are made through RER (rough		
	endoplasmic reticulum)			
	· · · · · · · · · · · · · · · · · · ·	ulum and smooth endoplasmic reticulum		
	produce lipid and protein	± •		
	membrane	s related with the destruction of plasma		
		o the nucleonlasm of outromystic nucleus		
Q11	<u> </u>	e the nucleoplasm of eukaryotic nucleus. cial role in detoxifying many poisons and	1	
QII	drugs in a cell?	cial fole in detoxifying many poisons and	1	
	a) Golgi apparatus	b) Lysosomes		
	c) Smooth endoplasmic	d) Vacuoles		
	reticulum	d) vacuoles		
Q12	The proteins and lipids, essential for building the cell membrane, are			
V12	manufactured by			
	a) Rough endoplasmic	b) Golgi apparatus		
	reticulum	3 41		
	c) Plasma membrane	d) Mitochondria		
Q13	The undefined nuclear region of		1	
	a) Nucleus	b) Nucleolus		
	c) Nucleic acid	d) Nucleoid		
Q14		rming complex sugars from simple	1	
	sugars are			
	a) Endoplasmic reticulum	b) Ribosomes		
	c) Plastids	d) Golgi apparatus		
Q15	Which out of the following is no	t a function of vacuole?	1	
	a) Storage	b) Providing turgidity and		
		rigidity to the cell		
	c) Waste excretion	d) Locomotion		
Q16	Amoeba acquires its food throug	•	1	
	a) Exocytosis	b) Endocytosis		
	c) Plasmolysis	d) Exocytosis and endocytosis		
		both		
Q17	Cell wall of which one of these i	<u> -</u>	1	
0.10	a) Bacteria	b) Hydrilla		
	c) Mango tree	d) Cactus	_	
Q18	Silver nitrate solution is used to	•	1	
	a) Endoplasmic reticulum	b) Golgi apparatus		

	c) Nucleus	d) Mitochondria		
Q19	Organelle other than nucleus, contain	ing DNA is	1	
	a) Endoplasmic reticulum	b) Golgi apparatus		
	c) Mitochondria	d) Lysosome		
Q20	Kitchen of the cell is		1	
	a) Mitochondria	b) Endoplasmic reticulum		
	c) Chloroplast	d) Golgi apparatus		
Q21	Lipid molecules in the cell are synthe	esized by	1	
	a) Smooth endoplasmic	b) Rough endoplasmic		
	reticulum	reticulum		
	c) Golgi apparatus	d) Plastids		
Q22	Cell arises from pre-existing cell was stated by			
	a) Haeckel	b) Virchow		
	c) Hooke	d) Schleiden		
Q23	Cell theory was given by		1	
	a) Schleiden and Schwann	b) Virchow		
	c) Hooke	d) Haeckel		
Q24	The only cell organelle seen in prokar	· ·	1	
	a) Mitochondria	b) Ribosomes		
	c) Plastids	d) Lysosomes		
Q25	Organelle without a cell membrane is		1	
	a) Ribosome	b) Golgi apparatus		
	c) Chloroplast	d) Nucleus		
Q26	Lysosome arises from		1	
	a) Endoplasmic reticulum	b) Golgi apparatus		
	c) Nucleus	d) Mitochondria		
Q27	Living cells were discovered by		1	
	a) Robert Hooke	b) Purkinje		
	c) Leeuwenhoek	d) Robert Brown		
Q28	Select the odd one out		1	
	a) The movement of water acros	=		
	affected by the number of sub			
		nic molecules like proteins and lipids		
		solvents can easily pass through the		
	membrane.			
	d) Plasma membranes contain ch	nitin sugar in plants		