HOLIDAY HOMEWORK CLASS IX BIOLOGY

(a) A Bacterium	(b) An Amoeba			
(c) A Virus	(d) A Sperm			
2. A cell will swell up	if			
(a) The concentration of molecules in surrounding	of water molecules in the cell is higher than the concentration of water ng medium			
(b) The concentration of concentration in the cell	of water molecules in surrounding medium is higher than water molecules			
(c) The concentration of water molecules is same in the cell and in the surrounding medium				
(d) Concentration of water molecules does not matter				
3. Chromosomes are made up of				
(a) DNA (b) prot	ein (c) DNA and protein (d) RNA			
4. Which of these options are not a function of Ribosomes?				
(i) It helps in manufacture of protein molecules				
(ii) 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)			
5. Which of these is not related to endoplasmic reticulum?				
(a) It behaves as transport channel for proteins between nucleus and cytoplasm				
(b) It transports materi	als 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				
6. Following are a few	definitions of osmosis Read carefully and select the correct definition			
	r molecules from a region of higher concentration to a region of lower a semipermeable membrane			
(b) Movement of solvent molecules from its higher concentration to lower concentration				
(c) Movement of solver through a permeable m	nt molecules from higher concentration to lower concentration of solution embrane			

(d) Movement of solute molecules from lower concentration to higher concentration of solution through a semipermeable membrane

7. Plasmolysis in a plant cell is defined as				
(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				
8. Which of the following are covered by a single membrane?				
(a) Mitochondria (b) Vacuole (c) Lysosome (d) Plastid				
9. Find out the false sentences				
(a) Golgi apparatus is involved with the formation of lysosomes				
(b) Nucleus, mitochondria and plastid have DNA; hence they are able to make their own structural proteins				
(c) Mitochondria is said to be the power house of the cell as ATP is generated in them.				
(d) Cytoplasm is called as protoplasm				
10. Find out the correct sentence				
(a) Enzymes packed in Lysosomes are made through RER (rough endoplasmic reticulum)				
(b) Rough endoplasmic reticulum and smooth endoplasmic reticulum produce lipid and protein respectively				
(c) Endoplasmic reticulum is related with the destruction of plasma membrane				
(d) Nucleoid is present inside the nucleoplasm of eukaryotic nucleus				
11. Which cell organelle plays a crucial role in detoxifying many poisons and drugs in a cell?				
(a) Golgi apparatus (b) Lysosomes				
(c) Smooth endoplasmic reticulum (d) Vacuoles				
12. The proteins and lipids, essential for building the cell membrane, are manufactured by				
(a) rough endoplasmic reticulum (b) golgi apparatus				
(c) plasma membrane (d) mitochondria				
13. The undefined nuclear region of prokaryotes are also known as				
(a) nucleus (b) nucleolus (c) nucleic acid (d) nucleoid				
14. The cell organelle involved in forming complex sugars from simple sugars are				
(a) endoplasmic reticulum (b) ribosomes				
(c) plastids (d) golgi apparatus				
15. Which out of the following is not a function of vacuole?				
(a) Storage (b) Providing turgidity and rigidity to the cell				

(c) Waste excretion (d) Loc	omotion			
16. Amoeba acquires its food t	hrough a process, termed			
(a) exocytosis (b) endocytosis endocytosis both	(c) plasmolysis	(d) exocytosis and		
17. Cell wall of which one of	these is not made up of cellulose?			
(a) Bacteria (b) Hyd	rilla (c) Mango tree	(d) Cactus		
18. Silver nitrate solution is us	ed to study			
(a) endoplasmic reticulum	(b) golgi apparatus			
(c) nucleus	(d) mitochondria			
19. Organelle other than nuclei	us, containing DNA is			
(a) endoplasmic reticulum	(b) golgi apparatus			
(c) mitochondria	(d) lysosome			
20. Kitchen of the cell is				
(a) mitochondria ((b) endoplasmic reticulum			
(c) chloroplast	(d) golgi apparatus	olgi apparatus		
21. Lipid molecules in the cell	are sythesized by			
(a) smooth endoplasmic reticul	lum (b) rough endoplasmic retic	ulum		
(c) golgi apparatus	(d) plastids	(d) plastids		
22. Cell arises from pre-existing	ng cell was stated by			
(a) Haeckel (b) Virchow ((c) Hooke (d) Schleiden			
23. Cell theory was given by				
(a) Schleiden and Schwann	(b) Virchow			
(c) Hooke	(d) Haeckel			
24. The only cell organelle see	n in prokaryotic cell is			
(a) mitochondria (b) ribo	somes (c) plastids	(d) lysosomes		
25. Organelle without a memb	rane is			
(a) ribosome (b) golg	gi apparatus (c) chloropla	st (d) nucleus		
