

Class: XIth Subject: BIOLOGY

Date: DPP No.: 7

Topic :- Cell the Unit of Life

1. Which one of the following is the correct matching of three items and their grouping category?

Item		Group	
a)	Malleus, incus, cochlea	Ear ossicles	

c)	Actin, myosin,	Muscle
	rhodopsin	proteins

b)	Ilium, ischium, pubis	Coxal bones of
		pelvic girdle
d)	Cytosine, uracil,	Pyrimidines
	thiamine	

- 2. The two subunits of ribosome remain united at a critical ion level of
 - a) Copper
- b) Manganese
- c) Magnesium
- d) Calcium
- 3. Study of form, structure and composition of cells is called
 - a) Cell biology
- b) Cytology
- c) Cell theory
- d) Cell chemistry

- 4. Acid hydrolase is found in
 - a) Golgi body
- b) ER

- c) Lysosome
- d) Vacuole
- 5. Which of the following maintains continuity between the water and lipid phases inside and outside the cells?
 - a) Cell Wall

b) Lecithin

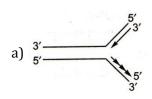
c) Cell vacuole

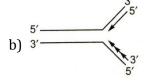
d) Cell membrane of woody plants

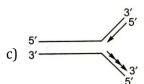
- 6. Cytoskeleton is made up of
 - a) Calcium carbonate granules
- b) Callose deposits

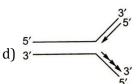
c) Cellulosic microfibrils

- d) Proteinaceous filaments
- 7. Which one of the following correctly represents the manner of replication of DNA?









- 8. The mineral present in cell wall is
 - a) Na

b) Ca

c) K

d) Mn

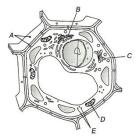
9.	Lipid bilayer is present a) Plasma membrane	in b) Ribosome	c) Chromosome	d) Nucleolus		
10.	Endoplasmic reticulum a) Golgi body	is in continuation with b) Nuclear wall	c) Mitochondria	d) Cell wall		
11.	Which of the following is the filler substance of the matrix of eukaryotic cell?					
12	a) Pectin b) Cutin c) Lignin d) Suberin . Which of the following does not contain DNA?					
12.	a) Mitochondria	b) Chloroplast	c) Peroxisome	d) Nucleus		
13.	The fluidity of membranes in a plant in cold weather may be maintained by a) Increasing the number of phospholipids with unsaturated hydrocarbon tails b) Increasing the proportion of integral proteins c) Increasing concentration of cholesterol in membrane d) Increasing the number of phospholipids with saturated hydrocarbon tail					
14.	. In a double helix of DNA molecule of 10 coils, if there are 30 adenine nitrogen bases, what is the number of guanine nitrogen bases?					
	a) 30	b) 60	c) 70	d)80		
15.	The study related to the	e str <mark>uctur</mark> e and <mark>funct</mark> ion	of a cell is called			
	a) Physiology	b) Cytology	c) Histology	d) Cellology		
16.	Cell theory was propos a) Virchow c) Robert Hooke	ed by	b) Schleiden and Schwa d) Barbara McClintock	ann		
17.	7. Pits present in the wall of plant cells helps to produce a protoplasmic continum, called amongst cells					
	a) Apoplast	b) Symplast	c) Osmosis	d) None of these		
18.	8. Main component of ribosome are					
	a) DNA and RNA	b) RNA and protein	c) DNA and protein	d) Protein and lipids		

19. Statements

- I. The four nucleotide bases are not necessarily present in DNA in exact equal proportions.
- II. The total amount of purines are equal to the total amount of pyrimidines.
- III. DNA ligase enzyme act to hydrolyse or breakdown a polynucleotide chain into its component nucleotides.
- IV. Nuclease enzymes are capable of restoring an intact DNA duplex.

Of the above statements

- a) II is correct, but I, III and IV are wrong
- b) I and II are wrong but III and IV are correct
- c) I, II and III are correct but IV is wrong
- d) I and II are correct but III and IV are wrong
- 20. The following diagram shows some of the missing structures in a plant cell (A-E). Identify the structures



- a) A-Plasmodesmata, B-Rou<mark>gh e</mark>ndopla<mark>smic r</mark>eticulum, C-Golgi apparatus, D-Mitochondrion, E-Ribosomes
- b) A-Desmosome, B-Rough endoplasmic reticulum, C-Golgi apparatus, D-Mitochondrion, E-Ribosomes
- c) A-Plasmodesmata, B-Smooth endoplasmic reticulum, C-Golgi apparatus, D-Mitochondrion, E-Ribosomes
- d) A-Tight junction, B-Rough endoplasmic reticulum, C-Golgi apparatus, D-Mitochondrion, E-Ribosomes