DPP DAILY PRACTICE PROBLEMS								
	Class : XIth Date :	Subject : BIOLOGY DPP No. : 6						
Topic :- Cell the Unit of Life								
1.	If a length of DNA has 45,000 base pairs, how many complete turns will the DNA molecule							
	takes? a) 4,500 b) 45,000 c) 45	d)450						
2.	The distance between two base pairs in DNA is a) 34Å b) 3.4Å c) 0.34Å	d)20Å						
3.	I. Chromoplasts – Contain pigments other than chlorophyll II. Leucoplasts – Devoid of any pigments III. Amyloplasts – Store proteins IV. Aleuroplasts – Store oils and fats V. Elaioplasts – Store carbohydrates a) II and III are correct b) III and IV are correct c) IV and V are correct d) I and II are correct							
_	d) Each strands of helix has a backbone made up of alterna	ating ribose sugar and phosphate						
5.	RNA has uracil instead ofa) Cytosineb) Guaninec) Thymin	e d)None of these						
6.	Identify <i>A</i> to <i>D</i> in the diagrammatic representation of interval and the dinterval and the diagrammatic representation of in							

- b) A-Plasma membrane, B-Central microtubule, C-Interdoublet bridge, D-Radial spoke c) A-Plasma membrane, B-Interdoublet bridge, C-Central microtubule, D-Radial spoke
- d) A-Plasma membrane, B-Interdoublet bridge, C-Radial spoke, D-Central microtubule

- 7. Which of the following cellular organelles is/are bound by a single membrane? Peroxisomes, lysosomes, mitochondria a) Only peroxisomes but not lysosomes and mitochondria b) Both peroxisomes and lysosomes but not mitochondria c) All of the three organelles d) None of the three organelles 8. Red colour of tomato is due to b) Anthocyanin d)Erythrocyanin c) Lycopene a) β -carotene 9. What is the difference between RNA and DNA?
 - d) Phosphate a) Base b) Sugar c) Both (a) and (b)
- 10. Correlate the given features of animal cells (I to VII) with their respective parts (*A* to *N*)

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I. The structure replicates during mitosis and ger	ierat	tes	the	spi	ndle	•			
II. Major site for synthesis o <mark>f lipid</mark>									
III. Power house of the cell									
IV. store house of digestive <mark>enzy</mark> me									
V. Increase the surface are for the absorption of materials									
VI. Site of glycolysis									
VII. Site for active ribosomal RNA synthesis									
The correct option is									
I II III IV V VI VII									
a)LGHJNFD b) M	G	Н	J	Ν	F	D		
-	Í) M						D		

11. Cell membrane was discovered by Schwann (1838) but it was named by a) Nageli and Cramer b) Schwann and Schleiden d) All the above c) Robert Brown

12. Which of the following is not present in cell vacuoles?

a) Hydrolytic enzymes	b) Latex of the rubber plant
c) DNA	d) Anthocyanins of the flowers

- 13. Plasmodesmata are
 - a) Lignifiesd cemented between cells
 - b) Locomotory structures
 - c) Membranes connecting the nucleus with plasmalemma
 - d) Connections between adjacent cells
- 14. If a cell has a twice as much DNA as in a normal functional cell it means that the cell
 - a) Is preparing to divide b) Has completed division
 - c) Has reached the end of its life span d) Has ceased to function
- 15. Within the nucleus DNA is organised along with proteins into material called c) Chromosome a) Nuclear lamina b)Chromatin d)Chromatid
- 16. The molecular action of UV light is mainly reflected through
 - a) Photodynamic action
 - b) Formation of pyrimidine
 - c) Formation of sticky metaphases
 - d) Destruction of hydrogen bonds between DNA strands
- 17. Three of the following statements regarding cell organelles are correct, while one is wrong. Which one is wrong?
 - a) Lysosomes are double membraned vesicles b) Endoplasmic reticulum consists of a network budded off from Golgi apparatus and contain digestive enzymes
 - c) Leucoplasts are bound by two membranes, lack pigment but contain their own DNA and protein synthesising machinery
- 18. Plasmodesmata connections helps in
 - a) Cytoplasmic streaming
 - c) Locomotion of unicellular organisms

- of membranous tubule and helps in transport, synthesis and secretion d) Sphaerosomes are single membrane bound
- and are associated with synthesis and storage of lipids
- b) Synchronous mitotic divisions
- d) Movement of substances between cells
- 19. Which of the following pair is mismatched?
 - a) Capsule Thick and tough glycocalyx
 - b) Slime layer Loose glycocalyx
 - c) Pilli Motility organ
 - d) Bacterial cells Motile or non-motile
- 20. The rough endoplasmic reticulum (RER) in the cells are because of the presence of a) Mitochondria associated with ER b) Ribosomes on the surface of ER
 - c) Volutin granules on the surface of ER
- d) Sulphur granules on the surface of ER