DCA CLASSES

CLASS VII – SCIENCE – CHAPTER 08 CELL STRUCTURE AND FUNCTIONS

Nan	ne:							Date:	
01.	The lowest le	vel of or	ganization of life is: -						
	(a). organ system level (b). organ level			(c). cellular level		(d). tissue level			
02 .	Which of the	followin	g is not a part of nucle	eus?					
	(a). nucleolus	5	(b). lysosomes		(c). ch	nromoson	nes	(d). nucleopl	asm
03 .	Centrosomes	are pres	sent only in: -						
	(a). plant cell	S	(b). animal cells		(c). bo	oth a & b		(d). only viru	ses
04 .	I. All functions of the body are carried out by a single cell in: -								
	(a). multicellula	ar organis	m (b). unicellular orgai	nism	(c). bi	icellular o	rganism	(d). tetracelli	ular
05 .	. The largest cells in our body are: -								
	(a). blood cel	ls	(b). liver cells		(c). ki	dney cells	5	(d). brain cel	ls
06 .	6. The part of cell that provides shape to it is:-								
	(a). nucleus		(b). cytoplasm		(c). pl	lasma me	mbrane	(d). nucleopl	asm
07 .	Cells can be s	een thro	ough: -						
	(a). hand lens	5	(b). microscope		(c). na	aked eye		(d). both b &	С
08 .	Control centrol	e of a ce	ell is: -						
	(a). nucleus (b). endoplasmic reticulum (c). mitochondria							(d). golgi boo	dy
09 .	9. The cell org <mark>anelle responsible for storage</mark> and secretion of materials from cell is: -								
	(a). golgi com	plex	(b). lysosomes		(c). er	ndoplasm	ic reticulum	(d). nucleus	
10 .	0 . Pollen grain <mark>s of sun</mark> flower are:-								
	(a). tissue		(b). organ		(c). ce	ell		(d). organ sys	stem
11 .	Cells are: -								
	(a). transpare	ent	(b). colourless		(c). bo	oth a & b		(d). opaque 8	& coloured
12 .	. Deoxyribon <mark>ucleic ac</mark> id is found to be presen <mark>t within</mark> : -								
	(a). endoplas <mark>m</mark>	ic reticulu	ım(b). nucleus		(c). ly	sosome		(d). ribosome	2
13 .	The water filled spaces found in plant cells are: -								
	(a). lysosome	S	(b). vacuoles		(c). ce	ell membr	ane	(d). centroso	me
14 .	Centrioles of	an anim	al cell help in: -						
	(a). transfer of	of charac	cteristics (b). transport	t	(c). fc	od oxidat	tion	(d). cell divisi	ion
15 .	Which of the	followin	g is not a stain?						
	(a). safranine	!	(b). eosin		(c). m	ethylene	blue	(d). glycerine	5
16 .	Different type	es of tiss	ues form together: -						
	(a). organs		(b). cellular organiza	ation	(c). ep	pidermis		(d). muscles	
17 .	The cell wall of a plant cell is made up of: -								
	(a). cellulose		(b). starch		(c). gl	ucose		(d). glycogen	l
18 .	3. Ribosomes are found in: -								
	(a). plant cells (b). animal cells (c). viruses						(d). only a &	b	
19 .	Food taken in by amoeba is digested in a: -								
				(c). centrosome			(d). vacuole		
20.	Scattered in the cell are many small structures called: -								
	(a). chromoso	omes	(b). genes		(c). or	rganelles		(d). WBCs	

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001	1. Match the column: -							
QUI.		(a). magnifying glass	i) single celled organism ii) smallest cell					
	` '	(b). Amoeba						
		(c). Ostrich egg	iii) plant cell					
		(d). chloroplast	iv) largest cell					
		(e). Mycoplasma	v) simplest microscope					
	(B)	(a). mitochondria	i) contains cell sap ii) power house of cell					
	(B).	(b). vacuole						
		(c). plastids	iii) cellular digestion					
		(d). ribosomes	iv) kitchen of the cell					
		(e). lysosomes	v) protein synthesis					
	(C).	(a). dead cells	i) Schwann & Schleiden					
		(b). living cells	ii) Robert Brown					
		(c). cell theory	iii) Leeuwenhoek					
		(d). lysosome	iv) Robert Hooke					
		(e). nucleus	v) Christian de duve					
	(D).	(a). WBC	i) hereditary vehicles					
		(b). chromosomes	ii) found in Euglena					
		(c). protoplasm	iii) found in blood					
		(d). centriole	iv) living material of cell					
		(e). flagella	v) chromosomal movement					
	(E).	(a). chromoplasts	i) unicellular alga					
		(b). chloroplasts	ii) unicellular fungus					
		(c). leucoplasts	iii) colorless plastids					
		(d). <mark>Chlamy</mark> domonas	iv) colored plastids					
		(e). Yeast	v) green plastids					
002	Cill ir	the blanks						
QUZ.	Fill in the blanks: -							
	 (a). A is the smallest unit of life. (b). Chromosomes contain basic hereditary units called (c) is the cell organelle which produces energy by the oxidation of food. 							
	 (d). Chromoplasts provide different to the flowers and fruits. (e). Green plastids contain that help in photosynthesis. (f). All the life functions take place in the of a cell. (g). The nucleus of a cell is surrounded by membrane. (h). The process of coloring different parts of a cell is called (i). A group of similar cells that are specialized to perform specific functions is called (j). Kidney shaped cells in plant leaves are called cells. (k) is a spherical body present inside the nucleus. 							
	(I). The function of receiving and transferring messages is carried out by cells.							

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- (m). of a non-dividing nucleus, condenses in a dividing nucleus to form chromosomes.
- (n). _____ are parts of DNA that are passed from parents to their offsprings.
- (o). is the dense fluid like granular substance of a nucleus.
- Q03. State whether the following statements are true or false: -
 - (a). Nerve cells both in rat and elephants perform the same function.
 - (b). In animal cells nucleus is shifted to one side of the cell.
 - (c). Cellular respiration occurs in the vacuoles.
 - (d). Epidermis is an organ.
 - (e). Animal cells contain small sized vacuoles
 - (f). The size of a cell is related to body size of the organism.
 - (g). An amoeba is irregular in shape.
 - (h). In plant cells, the nucleus is shifted to one side of the cell.
 - (i). Golgi body of a plant cell is called dictyosome.
 - (i). Leucoplasts have pigments of different colours that give colour to flowers and fruits
- Q04. What are the main postulates of the cell theory?
- Q05. Differentiate between unicellular and multicellular organisms with examples.
- Q06. How is a cell wall different from plasma membrane?
- **Q07**. List the different functions performed by cell membrane.
- Q08. What are genes? How are they important to organism?
- Q09. Are nuclei of prokaryotic and eukaryotic cells different from each other?
- Q10. What is the need of staining the cells? Name any four stains.
- Q11. Define a vacuole inside a cell and mention its importance?
- **Q12**. Complete the following flow chart:

Cell -> ? -> ? -> Organism

Q13. Pick the odd word out of the following:

Amoeba/Paramecium/Bacteria/Euglena/Plasmodium/Yeast.

- Q14. Fill with correct words:
 - (a). pseudopodia: false feet:: neurons:?
 - (b). cell wall: bacteria:: centrosome:?
- Q15. Complete the following:

Protoplasm = nucleus +?

Q16. Label in the following diagram:

