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CELL STRUCTURE AND FUNCTIONS

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<1M>

1.From the list given be	elow pick out the	e unicellular o	rganisms:	Amoeba, hen, oo	ctopus, paramecium,		
bacteria	(D) has	n ootonus ho	ataria				
(A) Amoeba, octopus		_					
(C) amoeba, paramoeci <javascript:></javascript:>		(D) paramoe					
(A) i), ii) and iv)	(B) i) and ii)	(C) i), ii) and	d iii)	(D) i), iii) and	iv)		
2.The term cell was coi microscope.	ined by	_ when he was	examinin	g the slice of	under the		
(A) Robert Hooke, cork		(B) Schlielden, cork(D) Schlielden, onion					
(C) Robert Hooke, chee	ek cells	(D) Schlield	en, onion				
3. Spherical, columnar,							
(A) Size (B) Sh	ape (C) Co	olour (D)	Volumes				
4.Smallest cell in size of							
(A) Cytoplasm	(B) Cynobacte	rial	(C) M ₂	ycoplasmas	(D) Acetobacter		
5.Largest cell, which ca	an be observed w	vith an unaide	d eve-				
(A) Ostrich's egg			•	reen algae chara	(D) Elephant's egg		
6.In the egg, central ye	llow part is calle	d ar	nd is surrou	unded by white p	oart called	<u>.</u>	
(A) albumen, yolk	(B) Yolk, albu	men (C)	Mycoplasr	na, yolk (D) A	moeba, albumen		
7.Plasma membrane an (A) Shape (B) Co	d rigid outer lay lour (C) Le		_	e to the	cell.		
8. Match the following	:						
(i) Protoplasm							
(ii) Nucleus	(B) Condensed	chromatin					
(iii) Organelles	(C) Liquid sub	stance					
(iv) Chromosomes	(D) smaller con	mponents of co	ell				
(A) (i)-(A); (ii)-(D); (ii	i)-(C); (iv)-B)	(B) (i)-(B); ((ii)-(A); (ii	i)-(C); (iv)-(D			
(C) (i)-(C); (ii)-(D); (iii	i)-(B); (iv)-A)	(D) (i)-(C); ((ii)-(A); (ii	i)-(D); (iv)-(B)			
9.The liquid present in	the is surrounde	d by					
(A) protoplasm	(B) nu	clear membrai	ne				
(C) cell membrane	(D) ce	ll wall					
10.The structure respon				_	_		
(A) Chromosomes	(B) Lysosomes	(C)	Mitochond	lria (D) Pl	astid		
11.Plastids give colour	to the plant cells	s, chloroplast i	is	_ in colour			
(A) Red	(B) Yellow	(C)	Green	(D) B ₁	rown		
12.Select the correct al	ternative:						
(i) The outermost layer							
(ii) Activities of the cel	•						
(iii) 90% by weight, p hydrogen.	protoplasm is m	ade up of cor	npounds o	of elements carb	oon, oxygen, nitroge	n and	
fiyurogen. (iv) Plastids are found i	in hoth animal as	s well as plant	cells				

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(A) (i) & (iv)	(B) (i), (ii) & (iii)			(C) (i) & (ii) o	(D) all of the above		
13.Droplets of substand	ces dissolved in	water in	the cyto	plasm which ap	pear as ei	mpty spaces	
(A) Mitochondria	(B) Nucleus (C) Vacuo			(D) Chromatic	ls		
14 cells have larger vacuoles than the (A) Amoeba, animal (B) Animals, plants					(D) An	noeba, plant	
15.Different tissues joi (A) Cell (B) Or		gan Syst	em	(D) Organism			
16.Tomato is red due to (A) Chloroplast	(B) Vacuole		(C) Pla	stid	(D) Ce	ll wall	
17.Tomato is red due to (A) Chloroplast <\$> <javascript:></javascript:>	(B) Vacuole		(C) Pla	astid	(D) Ce	ll wall	
(A) (i), (iii) & (iv)	(B) (i) only	(C) (i)	& (ii)	(D) (i), (ii) & ((iii)		
18.The coloured dye us (A) Safranin	sed to stain the o	•			r a micro ethyl eve	•	
19.Yellow yolk of egg (A) Single cell.		(C) Zy	gote.	(D) Unfertilize	ed egg.		
20.Fluid surrounding the (A) Nucleoplasm			(C) Pro	otoplasm	(D) Bo	th (a) and (b)	
21.In plant cells, nucle(A) At periphery(C) In between the cent		y		the center ar the nucleus			
22.The undefined nucle (A) Nucleoid	ear region in bac (B) Nucleus	teria is:	(C) Ch	romosome		(D) Nucleolus	
23.The organisms that (A) Virus (B) Ba		are: otozoans		(D) Fungi			
24. The photosynthetic pigment is: (A) Chlorophyll (B) Chromophyll			(C) Chromopla		ast	(D) Leucoplast	
5.Name the cell part that has tiny holes. A) Centrosomes (B) Cell membrane			(C) Mi	C) Mitocondria		(D) Chloroplast	
26.The is used (A) Telescope	is used to observe the cell. (B) Microscope			(C) Electroscope		(D) Kaleidoscope	
27.Mention the layer o	utside the plasm	a membr	ane of a	plant cell.			
28.Name the outermos	t layer of an anir	nal cell.					
29.Name the cells havi	ng branches stru	cture.					
30.Why cells could not	be observed bet	fore seve	nteenth	century?			

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31. What is the basic structural and functional unit of all living organisms?
32. Which organism has the smallest cell?
33. Which is the largest cell visible by unaided eye?
34. Give two examples of unicellular organisms.
35. Name the jelly like substance present between the nucleus and the cell membrane.
36.Name the living substance of the cell.
37. Which organelle is called control centre of the activities of the cell?
38. Give two examples of prokaryotes.
39.Name the green plastids present in cell.
40.Name the cell that can be seen with inside eye
41. Give one example of multicellular organisms
42.Every organizations its life from
43. Name the cells in the human beings that can change their shape
44. The small spherical body found in the nucleus is called (a) nuclear membrane (b) cytoplasm (c) vacuole (d) nucleolus
<2M> 45.What is the function of cell membrane?
46. What are the basic components of cell?
47. Why plant cell have cell wall?
<3M> 48.Describe the variations in shape and size of cells.
49.Explain why chloroplasts are found only in plant cells?
50.Name am organism that has no definite shape and what are those projections that appear and disappear in it list its uses
51.write three differences between prokaryotic and eukaryotic cells.
52. Where are chromosomes found in a cell? State their function.
53.Draw the diagram of plant and animal cell. And label the parts
<5M> 54.Make a sketch of the human nerve cell. What function do nerve cells perform?
55. Write short notes on the following: a) Cytoplasm b) Nucleus
56 Differentiate between plant and animal cell