ACHIEVEMENT TEST PAPER CLASS-IX

Maximum marks-

25

Time-30 Minutes

		i ime-so minutes				
Nar	ne of Student					
School Name						
Class						
	etion					
	tructions:					
Answer the Questions.						
•	Each Question carry 1 marks.					
Multiple Choice Questions:						
1.	Microscopic Units of living organism are :					
	(a) Tissue	(b) Cell				
	(c) Organ	(d) Body				
2.	The barrier between the protoplasm and other environment is					
	an animal cell is:					
	(a) Cell wall	(b) Nuclear Membrane				
	(c) Tonoplast	(d) Plasma Membrane				
3.	A plant cell differs from an a	plant cell differs from an animal cell in the absence of :				
	(a) Endoplasmic reticulum	(b) Mitochondria				
	(c) Ribosome	(d) Centrioles				
4.	Fluid Mosaic Model was given by:					
	(a) Watson and Crick	(b) Robert Hooke				
	(c) Robert Brown	(d) Singer and Nikolson				

5.	Animal cell lacking nuclei would also lack in:			
	(a) Chromosome	(b) Ribosome		
	(c) Lysosome	(d) Endoplasmic reticulum		
6.	Which is celled the "Digestive Bag"			
	(a) Centrosome	(b) Lysosome		
	(c) Mesosome	(d) Chromosome		
7.	The radiant energy of sunlight is converted to chemical energy			
	and stored as :			
	(a) AMP	(b) ATP		
	(c) ADP	(d) APP		
8. Root hairs absorbs water from soil through:				
	(a) Osmosis	(b) Active Transport		
	(c) Diffusion	(d) Endocytosis		
9. Plasma Membrane act as a:				
	(a) Permeable Membrane (b) Selectively Permeable		
	Membrane	•		
	(c) diffusion	(d) Endocytosis		
10	The yellow red and orange	pigments of green plant is:		
	(a) Eiocinophyll	(b) Xanthophyll		
	(c) tonoplast	(d) Leucophyll		
11	n body is :			
	(a) Muscle cell	(b) Liver cell		
	(c) Nerve	(d) Kidney Cell		
12	Plasmolysis occurs due to:			
	(a) Absorption	(b) Endosmosis		

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	(c) Osmosis	(d) Exosmosis		
13.	The Basic building block of protein are:			
	(a) DNA	(b) RNA		
	(c) Nucleic Acid	(d) Amino Acid		
14.	Which is not the part of Nucleus:			
	(a) Nuclear Membrane	(b) Nucleoplasm		
	(c) Cytoplasm	(d) Chromatin Material		
45	Call appretion is done by			
15.	Cell secretion is done by:	/ // Endowleant Detter to		
	(a) Plastids	(b) Endoplasmic Reticulum		
	(c) Golgi apparatus	(d) Nucleolus		
16.	. The Membrane surrounding the vacuole of a plant cell is			
	called:			
	(a) Tonoplast	(b) Plasma Membrane		
	(c) Nuclear Membrane	(d) Cell wall		
17.	7. Double Membrane is absent in :			
	(a) Mitochondria	(b) Chloroplast		
	(c) Nucleus	(d) Lysosome		
18.	Spontaneous movement of	water molecule through permeable		
	membrane is known as:			
	(a) Osmosis	(b) Diffusion		
	(c) Plasmolysis	(d) Osmoregulation		
19. With in a cell the site of respiration (Oxidation) is the:				
	(a) Ribosome	(b) Golgi apparatus		
	(c) Mitochondria	(d) Endoplasmic reticulum		

20.Organisms lacking nucleus and membrane bound organelle				
are:				
(a) Diploid	(b) prokaryotes			
(c) Eukaryotes	(d) haploid			
21. Ribosome's are centre for :				
(a) Respiration	(b) Photosynthesis			
(c) Protein synthesis	(d) fat synthesis			
22. Cell organelle found only in plant is:				
(a) Golgi apparatus	(b) Mitochondria			
(c) Plastids	(d) Ribosome's			
23. The network of endoplasmic reticulum is present in the :				
(a) Nucleus	(b) Nucleolus			
(c) Cytoplasm	(d) chromosomes			
24. Centriole is associated with	:			
(a) DNA Synthesis	(b) Reproduction			
(c) Spindle formation	(d) Respiration			
25. Main difference between animal cell and plant cell is :				
(a) Nutrition	(b) Growth			
(c) Movement	(d) Respiration			

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PRACTICAL ORIENTED TEST CLASS- IX SUBJECT BIOLOGY

MAX-MARK-25

6 marks

5 marks

		TIME	E-11/2 HOURS			
1.	Dra	aw the diagram of animal cell and label the pa	rt that carry			
	on	on function of -				
	a.	Respiration				
	b.	Secretion				
	c.	Protein synthesis				
	d.	Transport of material	6 marks			
2. lo	dent	ify the given material-	4 marks			
	a.	Blue green algae				
	b.	Plant				
	Wr	ite down the main difference between them.	4 marks			
			4 marks			
3.F	repa	are a slide of onion peel with the help of given	material.			
4. :	Spot	ting –				
	a.	Bacteria				

b. Human blood slide

5. Viva voce.

Osmosis activity.

PROCESS SKILLS ASSESSMENT SCHEDULE

ACTIVITY I: TEMPORARY SIDE OF ONION PEEL

OBSERVING –

- a. Thick outer layer is present,
- **b.** In periphery region a dot like structure appears.
- c. Fluid is present in the cell.
- d. Able to count the number of cell

2 INFERRING

- a. Cell wall is the outer most covering of cell.
- b. Near periphery dot like structure is Nucleus.
- c. Fluid is cytoplasm present in the cell.
- d. Shape of cell determine onion peel is a type of plant cell

ACTIVITY II: TEMPORARY SLIDE OF CHEEK EPITHELIAL

1. OBSERVING

- a. Thin outer layer is present
- b. In mid region a dense part is present
- c. Fluid is present around the middle region

2. CLASSIFYING

- a. Able to differentiate between plant cell and animal cell.
- b. Able to identify the position of nucleus in plant cell and animal cell.

3. INFERRING

- a. Thin layer is present as outer most covering termed as plasma membrane.
- b. Dense structure in the centre of cell is nucleus.
- c. It confirms cheek epithelial is a type of animal cell.

ACTIVITY III: STUDY OF HUMAN BLOOD SMEAR

1. OBSERVING

a. Are able to see the different structures of cells.

2. CLASSIFICATION

- a. Some cell are present in large numbers with out nucleus.
- b. Some cells are small star shaped.
- c. Except these two type of cells other type of cell are also present.

3. INFERRING

- a. Cells with out nuclei are termed R.B.C.
- b. Star shaped small cells are termed platelets.
- c. Remaining cells are known as W.B.C.

ACTIVITY-IV: SLIDE OF PROKARYOTIC CELL (BACTERIA)

1. OBSERVING

- a. Thick outer wall is present at outer most covering.
- b. Thread like structure appear on the surface of the cell.
- c. Many dot like structure are present inside the cell.

2. INFERRING

- a. Nucleus is absent.
- b .Plasma membrane is present.
- c. Cytoplasm is present in cell.
- d. Cells are microscopic.
- e. It confirms the bacteria cell is a type of prokaryotic cell.

ACTIVITY-V: SLIDE OF AMOEBA

1. OBSERVING

- a. Irregular shape of the cell appear
- b. Large circular structure appears.
- c. Small dot like structures are seen

2. INFERRING

- a. Large circular structure is known as food vacuole
- b. Small dot like structure are granules.
- c. It confirms amoeba is unicellular organism.

ACTIVITY-VI: DIFFUSION IN DIFFERENT STATE OF MATTER

1. OBSERVING

- a. Able to identifier different states of matter.
- b. By sensing able to identify spreading of molecules.
- c. Conscious about time taken in spreading of molecules.

2. CLASSIFYING

- a. Spreading of molecule is faster in gaseous state.
- b. Spreading of molecule is moderate in liquid state.
- c. Spreading of molecule is slowest in solid state.
- d. This phenomena of spreading of molecule from higher density to low density is known as diffusion.

ACTIVITY VII: OSMOSIS IN POTATO.

1. OBSERVING

- a. Able to see cavity inside the potato.
- b. Able to see the level of sugar solution in potato cavity.

2. HYPOTHESIS

- a. The level of sugar solution decreases.
- b. The level of sugar solution increases .
- c. There is no change in the level of sugar solution.

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3. INFERRING

- a. Potato tuber act as a semi permeable membrane.
- b. Level of sugar solution increases due to movement of water., molecules move from its higher concentration to its lower concentration inside the tuber (endosmosis)
- c. It confirms the process of osmosis.