

1. Answer the following questions.

Red blood cells:	types of specialized cells.
Epithelial cells:	
Bone cells:	
ii. What is the function of	of a cell membrane?



What is the name of the green-coloured pigment inside chloroplasts?
What is a tissue?
What is the function of a cytoplasm?
Dage 7 La
What is an organ? Name any three organs in a human body.



2. Long answer questions:

i. A plant and an animal cell are similar in some ways yet very different in others. Compare the two types of cells in a paragraph and draw labelled diagrams.

Plant cell	Similarities	Animal cell
ii. Draw a labelled d	iagram of a plant and w	rite the functions of the
main organs of a	flowering plant.	
H_{2}	Θ / \setminus	
Roots:		



Stem:	
_eaves:	
Flowers:	
Poole	17. 1
ii <mark>i.</mark> Wha <mark>t is a tissue? What i</mark>	is the job of smooth muscle tissue?
Smooth muscle tissue:	



iv. Differentiate between organ and tissue.

	Tissue	Organ
3.	Think about it:	
	<u> </u>	
	Why are cells stained or dyed microscope?	before being looked at with a lig
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		before being looked at with a light

4. Tick the right option.

1. \	What is	the main	difference	between p	plant and	animal	cells?
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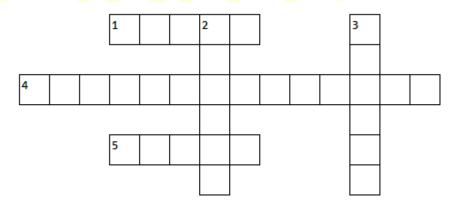
- a) Plant cells have a nucleus, animal cells do not.
- b) Animal cells move about.
- c) Plant cells have a cell wall which is easily seen.
- d) Animal cells are always bigger than plant cells
- 2. Which one of the following substance in a cell traps sunlight?
- a) Cytoplasm
- b) Cell sap
- c) Cellulose
- d) chlorophyll

- 3. The job of the cell membrane is to.
- a) Give a plant cell its shape
- b) Control what happens inside the cell
- c) Control what substances go into and out of the cell.
- d) Stop water entering the cell

- 4. The job of the cell wall in a plant is to.
- a) Control what substances go into and out of the cell
- b) Give a plant cell its shape
- c) Allow photosynthesis to happen
- d) Store food for the plant

- 5. What sort of structure is the heart?
- a) A tissue
- b) An organ
- c) An organ system
- d) A group of cells

3. Crosswords



Across

- 1. Connective tissue.
- 4. Mesophyll cells.
- 5. Root hair cells absorb.

Down

- 2. Red blood cells carry.
- 3. Group of cells.

4. Words Search

Cardiac	Kidney	Phloem	Nervous	Mesophyll
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N	Е	R	V	0	U	S	Ν	Z	U	Е	L
X	W	G	Ν	R	S	U	В	С	Χ	R	K
G	В	Υ	0	K	L	М	Т	W	В	Т	I
U	М	Е	S	0	Р	Η	Υ	L	L	U	D
N	F	Р	G	J	Ι	L	Ν	W	В	М	N
Е	K	0	R	W	Υ	I	0	Р	Α		Е
Т	L	S	Z	I	Α	L	K	Q	Z	K	Υ
Q	Р	S	Α	Υ	Е	W	R	Z	С	М	В
Р	W	D	Р	Н	L	0	Е	М	Q	В	Р
V	Υ	0	В	N	М	S	I	U	V	С	0
Q	C	Α	R	D	-	Α	С	X	Q	X	W

5. Jumbled Words

i.	OICROSMCPE	ii.	DALIPSAE	

iii. DONENCSER iv. GPOSNY

v. ROASCE _____ vi. LPITEHEIAL _____

vii. GIAPHRDAM _____ viii. XORTCE _____

ix. TKELESAL _____ x. SNITETINE _____

6. Columns

Match the column A with column B.

	maton ti	io ooiaiiii / wid	ii oolaliiii Bi			
(Column A		C	olumn B		
They move par	R	ed blood cells				
ability to contra	act.	•				
They perform p	protection and	•	● E _l	oithelial cells		
secretion.						
They make the	bones that su	pport our	• N	erve cells		
body.						
They carry oxy	gen around the	e body in	●Bo	one cells		
blood.						
They receive a	nd send mess	age from	•SI	keletal cells		
the body to the	brain and bac	k to the				
body.						
7. Fill in t	he blanks	using the giv	ven words	5.		
bigger	u <mark>ni</mark> cell <mark>ul</mark> ar	more than one	tissues	tissue		
i. A group of similar cells is called a						
ii. The glass of the in the microscope bends light waves in a way that						
makes an object look						
		a group of differer	nt	which al		
	work together to do a particular job.					

Organisms which are made up of one cell are called ______.

Multicellular organisms are made up of _____ number of

iv.

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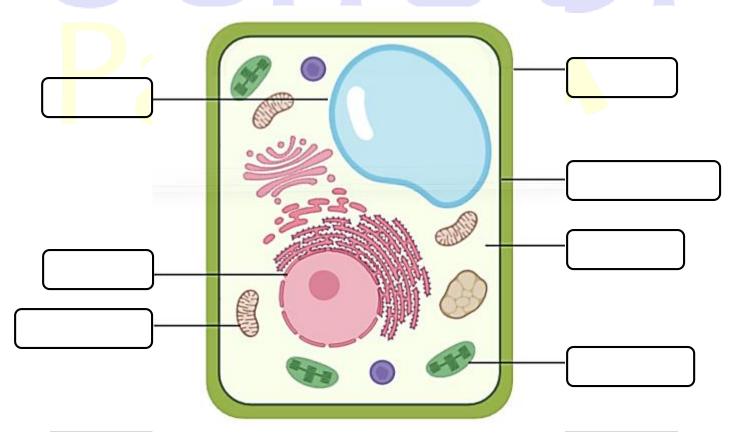
cells.

8. Write "T" for the true and "F" for the false statement.

- i. Only plant cells have chloroplasts.
- ii. Animal cells are rigid, but plant cells are floppy.
- iii. The nucleus of a cell controls its actions.
- iv. A group of similar cells is called a tissue.
- v. The chloroplasts in a plant cell carry out respiration.

9. Label the diagram.

A Plant Cell



10. Drag and Drop

Look at the pictures and write their names in the relevant column.

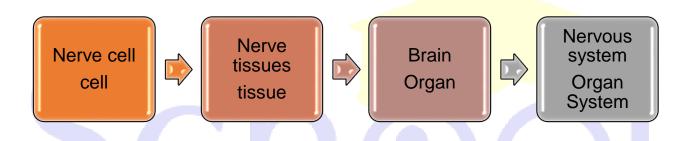
	1111.			
Cell wall	Small or animal vacuole	Chloroplast	Mitochondria	Skeletal muscle

Functions	Names
Stores waste material.	
Produces energy for cell.	
Give a plant cell its shape.	
Performs photosynthesis.	
Move different parts of body.	

11. Comprehension

Answer the following questions after reading the paragraph.

Cellular organization refers to the hierarchical structure within living organisms, where cells are the fundamental units of life. At this level, cells perform specific functions and work together to form tissues, organs, and organ systems. Understanding cellular organization is crucial in comprehending the complexity of living organisms. The hierarchy of human levels of organization for nervous system is as follows:



i. What is cellular organization?

Ans:				

ii. What are the fundamental units of life?

iii. What is the hierarchy of human levels of organization for nervous system?

