TOPIC: CELL (Concept1)
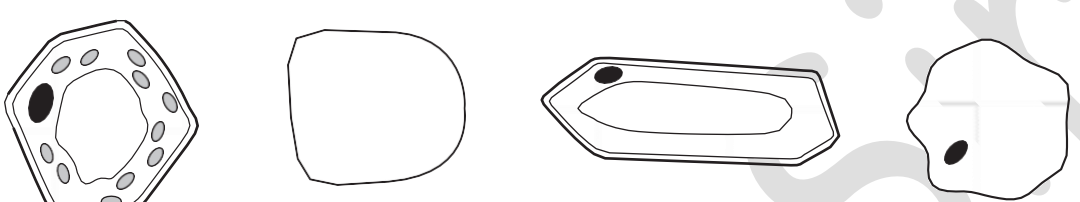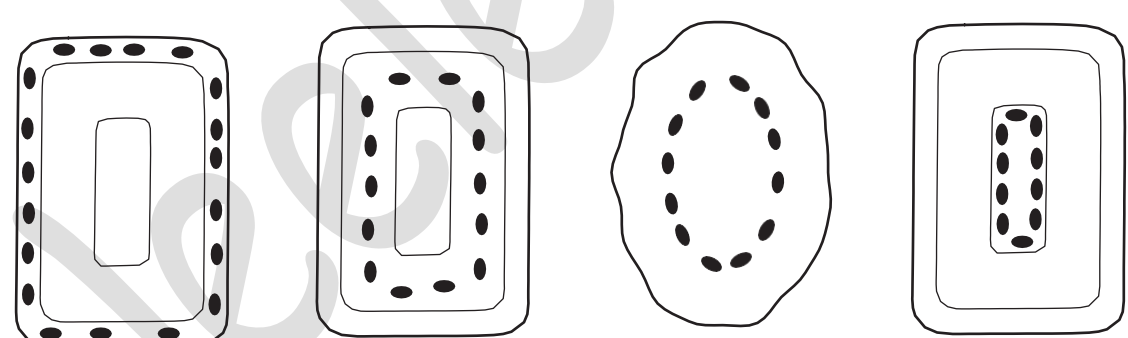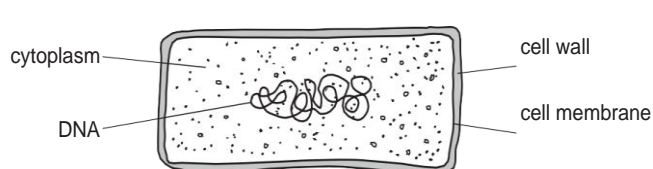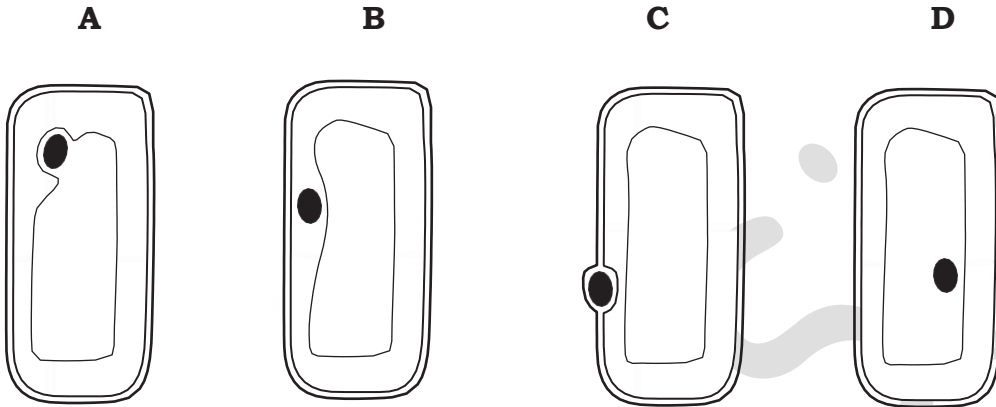# Let's Identify my Conceptual Knowledge

1	The diagram shows different types of cells.

Which structure do all these cells have?

   A   cell membrane

   B   cell wall

   C   chloroplast

   D   nucleus

2	Which diagram shows chloroplasts in their correct position in a plant cell?

      A   **B**   **C**   **D**

3	The diagram shows a bacterial cell.

How is this cell different from a typical animal cell?
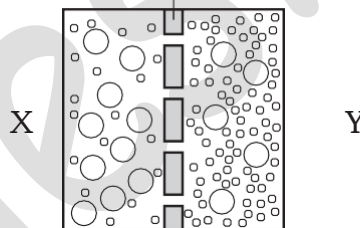
   A   It has a cell membrane.

   B   It has cytoplasm.

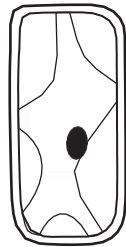|	
	C It has no chloroplasts.
	D It has no nucleus/ nuclear membrane
4	Which cell shows the position of the nucleus correctly? **A** **B** **C** **D**
5	The diagram shows water and sugar molecules on either side of a partially permeable membrane partially permeable membrane X Y ○ sugar molecule ° Water molecule What happens during osmosis? A More sugar molecules pass through the membrane from X B More sugar molecules pass through the membrane from Y to X than from X to Y. C More water molecules pass through the membrane from X to Y than from Y to X. D More water molecules pass through the membrane from Y to X than from X to Y.
6	Which process in humans does not use energy released from respiration?

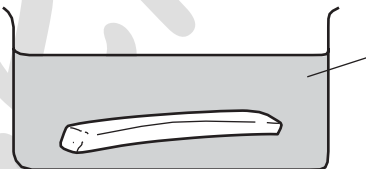|	
	A cell division
	B diffusion of oxygen
	C muscle contraction
	D protein synthesis

7	The diagram shows a cell.
	
	Which type of cell does the diagram show?
	
	    A an animal cell in a concentrated solution of salts
	
	    B an animal cell in pure water
	
	    C a plant cell in a concentrated solution of salts
	
	    D a plant cell in pure water

8	Boiling potatoes destroys their cell membranes. A peeled, boiled potato strip is placed in a concentrated solution of salts. What takes place? |	Osmosis	solute diffusion
---	---	---
A	✓	✓
B	✓	✗
C	✗	✓
D	✗	✗	 key: ✓ = takes place ✗ = does not take place

9	Find out the false sentence. (a) The cell organelle involved in forming complex sugars from simple sugars are Golgi bodies (b) Nucleus, mitochondria and plastid have DNA; hence they are able to make their own structural proteins. (c) Mitochondria is said to be the power house of the cell as ATP is generated in them. (d) Cytoplasm is called as protoplasm.
10	Find out the correct sentence (a) Enzymes packed in lysosomes are made through RER (Rough Endoplasmic Reticulum) (b) Rough endoplasmic reticulum and smooth endoplasmic reticulum produce protein and lipid respectively (c) Endoplasmic reticulum is related with the destruction of plasma membrane (d) Nucleoid is present inside the nucleoplasm of eukaryotic nucleus. A . a and b only B . a, b, and c only C. a, b, c and d D. a, b, and d only
	**********