

❖ **Very Small Answer type questions: ( 1 mark Questions )**

Q.1 What is diffusion ?	1
Q.2 What is Plasmolysis?	1
Q.3 What is Nucleoid?	1
Q.4 Which solution Camillo Golgi used for his 'black reaction' ?	1

❖ **Small Answer type Questions: ( 2 marks Questions )**

Q.1 Why is the cell called the structural and functional unit of life ?	2
Q.2 Why cell membrane considered to be selectively permeable membrane ?	2
Q.3 How diffusion plays an important role in gaseous exchange ?	2
Q.4 Explain why the cell will shrink if we put it in a hypertonic solution?	2
Q.5 What will be your observation if we put a de-shelled egg in a concentrated salt solution for 5 minutes?	2
Q.6 What is endocytosis? Which animal show this?	2
Q.7 What would we see if we tried to observe any cell under microscope without stain? Why?	2
Q.8 Rearrange the following according their position in a cell: a) DNA, b) Nucleus, c) Chromosome, d) Gene	2
Q.9 What is the significance of the inner membrane of Mitochondria?	2
Q.10 Why Lysosomes known as the 'suicide bags' ?	2
Q.11 Why Vacuoles are important in plant cell?	2

❖ **Brief Answer type Questions: ( 3 marks Questions )**

Q.1 Explain briefly 'The cell theory'.	3
Q.2 Why osmosis is considered to be special case of diffusion through selectively permeable membrane?	3
Q.3 Which cell organelle involve in membrane biogenesis? What are its functions?	1+2=3
Q.4 'Lysosomes help to keep the cell clean'- Explain	3
Q.5 What are the importance of Mitochondria in living cell ?	3
Q.6 How many different types of plastids plant have? Explain	3
Q.7 Write the full form of the following with their respective functions: a) RER b) SER c) ATP	3
Q.8 What types of problem will a living cell face, if Golgi Apparatus is not present ?	3

❖ Long Answer type Questions: ( 5 marks Questions )

Q.1



- a) What does this picture represent ?
- b) Which instrument do you need to see this ?
- c) How will you prepare it ?

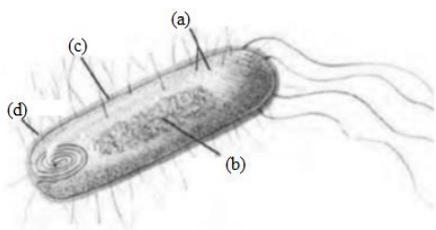
1+1+3=5

Q.2 What are the importance of the following scientists.

5

- a) Robert Hooke
- b) Leeuwenhoek
- c) Robert Brown
- d) Purkinje
- e) Schwann
- f) Virchow

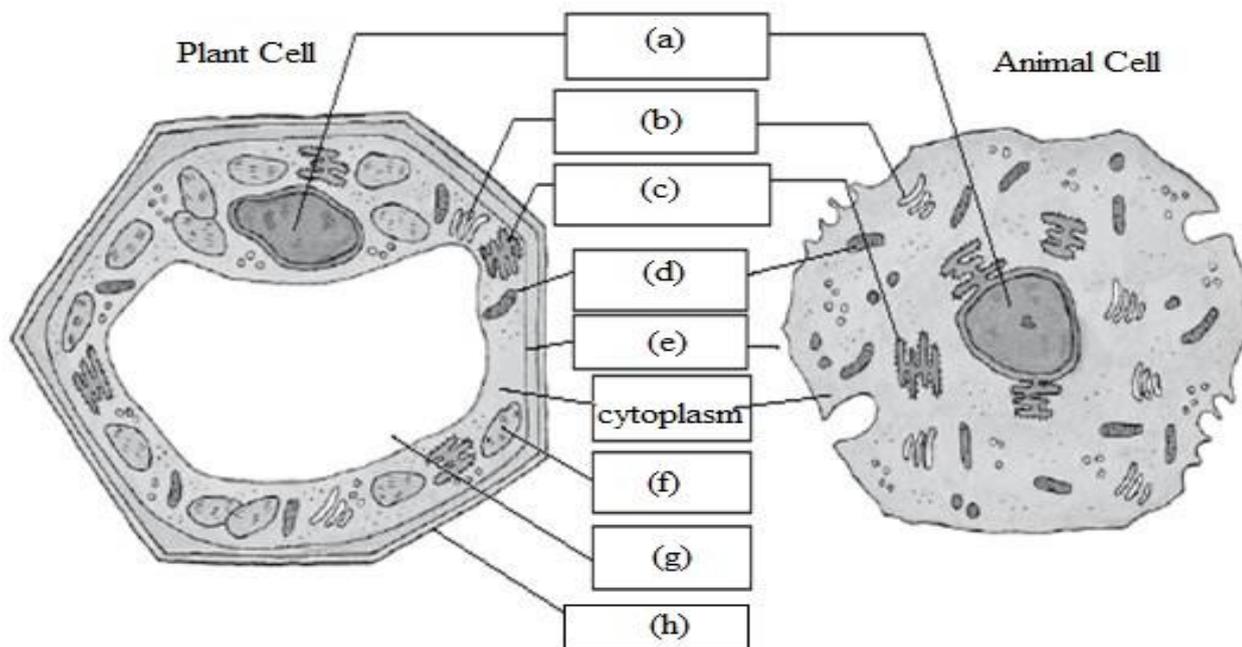
Q.3



- I. What does this picture represented ?
- II. Label the following (a) (b) (c) (d)
- III. Write the functions of (c) and (d)

1+2+2=5

Q.4 i) Label the following (a) to (h)



ii) Which two organelles we have studied that contain their own genetic materials.

4+1=5