

CLASS IX WORKSHEET (BIOLOGY) 2025- 2026

Q1-Define cell? Why cell is called structural and functional unit of life?

Q2-Who discovered :- (a)A living cell (b)A dead cell (c)Nucleus (d)golgibodies (e)mitochondria?

Q3-Name the types of cells?

Q4-Define prokaryotic cell? Give any two examples of prokaryotic cell?

Q5- Define eukaryotic cell? Differentiate between prokaryotic and eukaryotic cell?

Q6- Define cell wall? Explain its functions?

Q7- Explain the composition and functions of cell membrane?

Q8-Differentiate between cell wall and cell membrane?

Q9- Define cell organelles? Name any two.

Q10-Differentiate between plant and animal cell?

Q11-Define cytoplasm of a cell?How it is differ from protoplasm.

Q12-Define mitochondria? Explain its function and structure? Q13-Define Endoplasmic reticulum name its types?

Q14-Explain the functions and structure of golgi bodies?

Q15-Why plant cells are more rigid than animal cells?

Q16-Define lysosomes why they are known as suicidal bags? Explain their functions?

Q18-Which cell organelle known as power house of the cell? Why? Q19-Explain the structure of mitochondria?

Q20-Define nerve cell with the help of a diagram?

Q21-Define cell division? Name its types.

Q22-Define ribosomes? What are its functions.

Q23-Differentiate between S.E.R and R.E.R?

Q24-Differentiate between mitosis and meiosis?

Q25-What are the importance of mitosis?

Q26-Define diffusion? How it is differ from osmosis.

Q27-Expand (a)DNA (b)RNA (c)ATP

Q28-Define nucleus of a cell? What do you understand by an well developed nucleus.

Q29-Define hypertonic solution? What happened to the plant cell when dipped in it?Explain the process.

Q30-How does bacterial cell differ from onion peel cell?

Q31-Define osmosis? How is it differ from diffusion.

Q32-Explain the importance of mitotic and meiotic cell division?

Q33-Define vacuoles? What are its functions.

Q34- Define hypotonic solution?

Q35-Define isotonic solution?

Q36-Explain the process of plasmolysis?

Q37- Define plastids? Explain their role?

Q38-Explain the different types of plastids and their functions?

Q39- Classify the following as osmosis or diffusion:-

(a) Swelling up of raisins on keeping in water

(b) Spreading of virus on sneezing

(c) Fish using oxygen dissolved in water during respiration

(d) Absorption of water by roots from the soil.

Q40-The skin of your fingers shrink when you wash clothes for a long time? Give reasons

Q41-Define a tissue? Name two main types of plant tissue?

Q42-Define meristematic tissue? Name its types?

Q43-Where is apical meristem found?

Q44-Differentiate between meristematic and permanent tissue?