

**GAIL DAV PUBLIC SCHOOL  
GAIL GAON, DIBIYAPUR  
ASSESSMENT WORKSHEET**

**Session 2026-27**

**SUBJECT- BIOLOGY**

**THE FUNDAMENTAL UNIT OF LIFE**

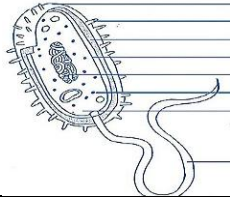
**CLASS IX**

**TIME- 1 HOUR**

**MM-25**

**General instructions-**

- (i) This assessment sheet comprises of 13 questions .You have to attempt all the questions  
 (ii) All questions are compulsory.  
 (iii) Draw neat and labelled diagram wherever required.

| Q.No | QUESTION  | MARKS |
|------|---|-------|
| 1    | The largest cell in the human body is -<br>(a)Nerve cell (b)Muscle cell<br>(c)Liver cell (d)Kidney cell   | 1     |
| 2    | A cell placed in hypertonic solution will<br>(a)Shrink (b)Show plasmolysis<br>(c)Swell up (d)No change in shape or size   | 1     |
| 3    | All life starts as:<br>(a)an egg (b)a single cell (c)a gene (d)a chromosome   | 1     |
| 4    |  Identify the type of cell in the given diagram.   | 1     |
| 5    | Define Plasmolysis.   | 1     |
|      | In the following questions, a statement of assertion is followed by a statement of reason.<br>Mark the correct choice as:<br>(a) If both Assertion and Reason are true and Reason is the correct explanation of Assertion.<br>(b) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.<br>(c) If Assertion is true but Reason is false.<br>(d) If both Assertion and Reason are false. |       |
| 6    | <b>Assertion (A):</b> A cell swells up when present in a hypotonic solution.<br><b>Reason (R):</b> More water molecules enter the cell than they leave.   | 1     |
| 7    | <b>Assertion (A):</b> Mitochondria and chloroplasts are semiautonomous organelles.<br><b>Reason (R):</b> They are formed by division of pre-existing organelles and contain DNA but lack protein synthesizing machinery.  | 1     |
| 8    | What is a cell theory? Who propounded it and when?  | 2     |
| 9    | How do substances like CO <sub>2</sub> and water move in and out of the cell? Discuss.  | 2     |
| 10   | How does an Amoeba obtain its food? Support your answer with a diagram.   | 2     |
| 11   | (i)Give the difference between prokaryotic cell and eukaryotic cell?<br>(ii)Name the levels of organization in living organisms.  | 3     |
| 12   | Read the passage carefully and answer the questions given below:  | 4     |

|       |  |   |
|-------|--|---|
|       | <p>A student placed a few dry raisins in a beaker containing a concentrated salt solution. After two hours, she observed the raisins carefully.</p> <p>(i)What process occurred in the raisins?</p> <p>(ii)Why did the raisins shrink?</p> <p>(iii)The surrounding salt solution is _____ compared to the inside of the raisin</p> <p>(iv)What would happen if she placed a fresh grape in pure water?</p> |   |
| 13    | <p>Draw the diagram of a plant cell labelling its 4 parts and stating the functions of each of the labelled part.</p> <p>OR</p> <p>Draw the diagram of an animal cell labelling its 4 parts and stating the functions of each of the labelled part</p>   | 5 |
| ***** |  |   |