

# Indian School Al Wadi Al Kabir

## Pre Midterm (2026-2027)

**CLASS: VIII**

**Subject: SCIENCE**

**MAX.MARKS: 30**

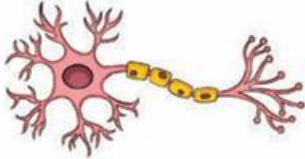
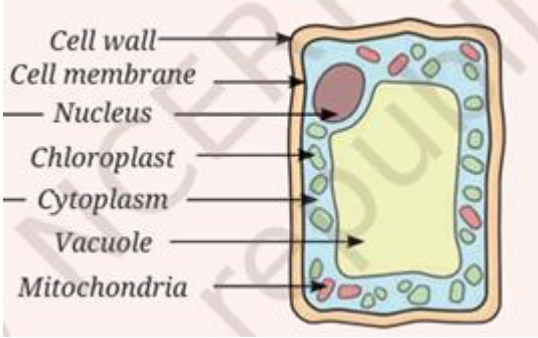
**DATE: 18/05/2026**

**Set -II**

**TIME: 1 HOUR**

### SECTION A (1X7=7)

1	(b) Lactobacillus	1
2	(d) Electric fan	1
3	(b) Observing and understanding changes.	1
4	(b) It acts as a temporary magnet only when current flows through it.	1
5	(A) Both A and R are true, and R is the correct explanation of the assertion.	1
6	(A) Both A and R are true, and R is the correct explanation of the assertion.	1
7	(D) A is false, but R is true.	1
<b>SECTION B(2X3=6)</b>		
8	A-Amoeba ,protozoa B-Bread mould ,Fungi	$\frac{1}{2} + \frac{1}{2}$ $\frac{1}{2} + \frac{1}{2}$
9	a) Ask a focused question based on curiosity b) Plan a simple experiment to test the idea, c) Control one variable at a time, d) Observe and record carefully, e) Analyse results and draw conclusions.	$\frac{1}{2} \times 4 = 2$
10	a) Observation gives raw data for interpretation. Without observing, experiments remain meaningless. Careful and repeated observation is considered the foundation for understanding natural phenomena and developing scientific thinking.	1
	b) A puri puffs up due to the water in the dough turning into steam when heated. The steam gets trapped inside, making a puri swell like a balloon .	1
<b>SECTION C(3X3=9)</b>		
11	a) Hans Christian Oersted found that whenever an electrical circuit was closed or opened, the needle of a magnetic compass, lying nearby, deflected. He investigated this and discovered that an electric current creates a magnetic field. b) The strength of an electromagnet can be changed in the following ways: i) <b>Changing the current:</b> Increasing the current in the coil increases the magnetic field, making the electromagnet stronger. Decreasing the current weakens it. ii) <b>Changing the number of turns in the coil:</b> More turns of wire in the coil produce a stronger magnetic field. Fewer turns make it weaker. iii) <b>Using a different core material:</b> Using a highly magnetic material like soft iron as the core strengthens the electromagnet. A less magnetic material weakens it.	1  1+1 (any two)

12	<p>a) It will prevent drying of the cells and improve clarity for better visualisation of cells.</p> <p>b)</p>  <p>carry messages in our body</p> <p>c) Sugar reduces the moisture content, which inhibits the growth of bacteria which spoil food.</p>	<p>1</p> <p><math>\frac{1}{2} + \frac{1}{2}</math></p> <p>1</p>
13	<p>a) A low-cost and foldable paper microscope that make microscopic world accessible to many people. They do not provide the same level of details like high-powered laboratory microscope.</p> <p>b) i) In flask A, the sugar solution with yeast undergoes fermentation. The yeast breaks down the sugar into alcohol and carbon dioxide gas, causing bubbles to form in the solution.</p> <p>ii) In test tube B, after four hours, the lime water turns milky or cloudy. This happens because the carbon dioxide gas produced by the yeast in flask A passes into the lime water, reacting with it to form calcium carbonate, which makes it appear milky</p>	<p>1</p> <p>1</p> <p>1</p>
<b>SECTION D (5X1=5)</b>		
14	<p>a)</p>  <p>b) Microorganisms decompose dead organic wastes of plants and animals and convert them into simple substances. The nutrients released in the process can be used by the plants again. Thus, microorganisms can be used to degrade waste substances into manure and thereby clean up the environment.</p> <p>c) Viruses do not grow or reproduce by themselves, which makes them non-living.</p>	<p>1+1</p> <p>1</p> <p>1</p>

	<p>However, when a virus enters the living cell of an organism, it makes use of the resources in the host cell and starts reproducing.</p> <p>d) Spirulina is a good source of vitamin B12, which is essential for our body. It has a lot of protein, which is more than 60 per cent of its body weight and only a small amount of fat and sugar. They are used in many health supplements and medicines.</p>	1
<b>SECTION E (1X3=3)</b>		
15	<p>i) Earth behaves like a giant magnet because deep inside the Earth, the movement of liquid iron in the core produces electric currents, which create a magnetic field.</p> <p>ii) These cannot lift plastic items because plastic is not a magnetic material and is not attracted by a magnet.</p> <p>iii) An iron core is used in lifting electromagnets because it increases their strength.</p>	<p>1</p> <p>1</p> <p>1</p>