



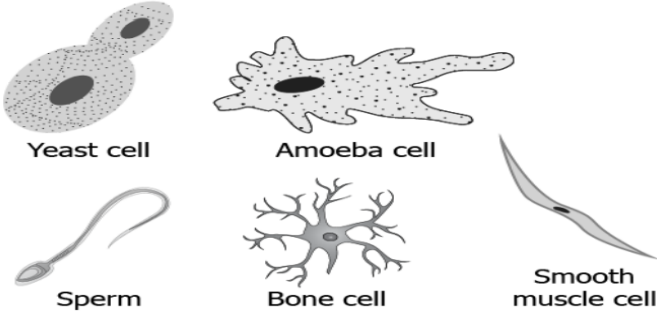
Date: 13/07/22
GRADE: IX

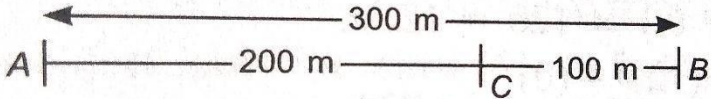
MONTHLY TEST -02 (2022-23)
SCIENCE (086)

Max marks: 20
Time: 1 Hour

General Instructions:

1. There are 9 questions in the question paper.
2. All questions are compulsory.
3. Draw diagrams, wherever necessary.

Qn. No		Marks allocated
SECTION A		
1	<p>The image shows some types of cells.</p> <div style="text-align: center;">  <p>Yeast cell Amoeba cell</p> <p>Sperm Bone cell Smooth muscle cell</p> </div> <p>Based on the image, what could be the reason for the different shape and size?</p> <p>(A) to suit their function (B) as they are formed first or last in the body (C) as they are all animal cells (D) as some are plant cells and some animal cells</p>	1
2	<p>Which of the following is true for displacement?</p> <p>A) It can be zero. B) Its magnitude is greater than the distance traveled by the object. C) It doesn't depend on direction. D) Magnitude of displacement cannot be equal to distance.</p>	1

3	<p>What does the odometer of an automobile measure?</p> <p>A) Distance traveled by the vehicle. B) Average speed. C) Total displacement D) Average velocity</p>	1
4	<p>The value of 57 degree Celsius in kelvin scale is (A)331 (B)330 (C)216 (D) -330</p>	1
SECTION B		
5	<p>State the cell theory? Who proposed it?</p>	2
SECTION C		
6	<p>In brief state what happens when</p> <p>a) A raw potato cup is filled with salt and is kept in a tray of water. b) A leaf is boiled and keeps its cells in hypertonic solution. c) Dry raisins are kept in water overnight.</p>	3
7	<p>Explain why solids have fixed shape but liquids and gasses do not have fixed shape.</p>	3
8	<p>Describe an activity to explain that matter is composed of millions of tiny particles.</p>	3
SECTION D		
9	<p>Joseph jogs from one end A to the other end B of a straight 300m road in 2 minutes 30 second and then turns around and jogs 100m back to point C in another 1 minute.</p>  <p>Calculate the following - A) Average speed from A to B and A to C. B) Average velocity from A to B and A to C.</p>	5 (2.5+2.5)
THE END		

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