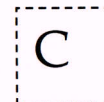


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INDIAN SCHOOL MUSCAT

FIRST PERIODIC ASSESSMENT

SCIENCE

CLASS: IX

Sub. Code: 086

Time Allotted: 50 mts

14.05.2019

Max. Marks: 20

GENERAL INSTRUCTIONS:

- All Questions are compulsory.
- Draw diagrams if necessary.

PHYSICS

1. a) What does the slope of velocity – time graph represent? 1
b) What does the odometer of an automobile measure?
2. Distinguish between speed and velocity. 2
3. A bus increases its speed from 54kmph to 72kmph in 5seconds. Find the acceleration of the bus. 2
4. a) Draw the velocity – time graph when the velocity of the body decreases Uniformly to zero. 1 + 1
b) Draw velocity – time graph for an object moving with uniform velocity.

CHEMISTRY

5. Out of the three physical states of matter, which one has: 1
a) maximum kinetic energy for particles.
b) minimum space between particles.
6. Explain why : 2
a) a rubber band is considered as a solid though it changes its shape on stretching.
b) Gases have high compressibility.
7. a) What is diffusion? Why is diffusion in solids almost impossible? 2
8. a) What is meant by the term rigidity? 2
b) Write two conclusions that can be drawn from the process of diffusion.

BIOLOGY

9. Name the process by which 1
a) Oxygen moves in and out of the cell
b) Water moves in and out of the cell
10. How can plant cells withstand much greater changes in the surrounding medium than the animal cells? 1
11. a) Name the scientist who discovered cell for the first time and name the material used for discovering the cell. 2
b) Write the composition and function of the cell wall.
12. a) What will happen, if the swollen raisin is put into salt solution? 2
b) Define endocytosis.

End of the Question Paper

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INDIAN SCHOOL MUSCAT FIRST PERIODIC ASSESSMENT

SCIENCE

CLASS: IX

Sub. Code: 086

Time Allotted: 50 mts

14.05.2019

Max. Marks: 20

GENERAL INSTRUCTIONS:

- All Questions are compulsory.
- Draw diagrams if necessary.

PHYSICS

1. a) What does the odometer of an automobile measure? 1
b) What does the path of an object look like when it is in uniform motion?
2. Distinguish between speed and velocity. 2
3. A bus decreases its speed from 80kmph to 60kmph in 5seconds. Find the acceleration of the bus. 2
4. a) Draw velocity – time graph for an object moving with uniform velocity. 1 + 1
b) Draw the velocity – time graph when the velocity of the body decreases uniformly to zero.

CHEMISTRY

5. Write two characteristics of particles of matter. 1
6. Write an activity to show that particles of matter have space between them. 2
7. a) What is diffusion? 2
b) Give one example of diffusion between
(i) liquid & liquid.
(ii) gas & liquid.
8. Explain why 2
a) liquids have fixed volume but no fixed shape.
b) gases can be easily compressed.

BIOLOGY

9. a) Which process plays an important role in gaseous exchange between cells? 1
b) Name the process by which amoeba obtains its food.
10. Write one difference between plasma membrane and cell wall. 1
11. Define the phenomenon plasmolysis. 2
12. A student performed an experiment by placing the de-shelled egg in a concentrated salt solution for five minutes. What changes did he observe in the egg? Define the phenomenon behind it. 2

End of the Question Paper



INDIAN SCHOOL MUSCAT FIRST PERIODIC ASSESSMENT

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GENERAL INSTRUCTIONS:

- All Questions are compulsory.
- Draw diagrams if necessary.

PHYSICS

1. a) What does the speedometer of an automobile measure? 1
b) What does the slope of a velocity – time graph represent?
2. Distinguish between distance and displacement. 2
3. A taxi driver noted the reading on the odometer fitted in the vehicle as 1052km when he started the journey. After 30 minutes' drive, he noted that the odometer reading was 1088km. Find the average speed of the taxi. 2
4. a) Draw velocity – time graph for a body moving with constant velocity. 1 + 1
b) Draw the distance – time graph for uniform motion.

CHEMISTRY

5. A diver is able to cut through water in a swimming pool. Which property of matter does this observation show? 1
6. Give your reasons: 2
a) A gas fills completely the vessel in which it is kept.
b) A sponge is called a solid even though it can be compressed.
7. a) Why do gases exert pressure? 2
b) Give two examples of gases kept under high pressure.
8. a) What is diffusion? Give one example of diffusion between two liquids. 2
b) Name the physical state in each case:
(i) That has a definite volume but no definite shape.
(ii) That has maximum rigidity but minimum fluidity.

BIOLOGY

9. a) Name the technical term for a medium has exactly the same concentration as the cell. 1
b) What would be the condition of the cell when placed in such solution?
10. Define the process by which amoeba obtain its food. 1
11. Why is plasma membrane called selectively permeable membrane? 2
12. Preetha was observing live cells of onion in biology laboratory. She observed cell wall, nucleus and cytoplasm clearly. Suddenly her friend spilled a few drops of salt water on the slide. After sometime Preetha observed the slide and found some changes. 2
a) What would have been the change in the live cells of onion peel after adding salt water?
b) Name the type of process and the solution.

End of the Question Paper