

ATOMIC ENERGY CENTRAL SCHOOL NO. 3 RAWATBHATA
PERIODIC TEST -I (2018-19)

CLASS -IX
SUB: SCIENCE

M.M: 40
Time: 1 $\frac{1}{2}$ Hrs.

CHEMISTRY

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| 1. What is the physical state of water at 25 ⁰ C? | 1 |
| 2. What is dry ice? | 1 |
| 3. Convert 30 ⁰ C to Kelvin | 1 |
| 4. For any substance why does the temperature remain constant during change of state? | 2 |
| 5. Why does a gas exert pressure on the walls of a container? | 2 |
| 6. Write differences between solids liquids and gases. (any three) | 3 |
| 7. Explain the factors affecting evaporation (any four) | 4 |

BIOLOGY

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|--|---|
| 1 . When are chromosomes visible in a cell? | 1 |
| 2. Name the process by which amoeba obtains its food. | 1 |
| 3. What is membrane biogenesis? | 1 |
| 4. Name the energy currency of the cell. Where is it stored in a cell? | 1 |
| 5. What is plasmolysis? What happens when a deshelled egg is placed in a hypotonic solution? | 2 |
| 6. a)Why are lysosomes called suicide bags of the cell? | |
| b) Name one cell organelle that has its own genetic material | 3 |
| 7. a) Draw a labelled diagram of a prokaryotic cell. | |
| b) Write two differences between a prokaryotic and a eukaryotic cell. | 4 |

PHYSICS

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| 1. What is the quantity which is measured by the area occupied below velocity time graph. | 1 |
| 2. A body is moving along a circular path of radius R. What will be the distance covered and the displacement of the body after half a revolution? | (2) |
| 3. Define acceleration. Give an example of uniform acceleration. | (2) |
| 4. A bus starting from rest moves with a uniform acceleration of 0.1 m/s ² for 2 minutes.
Find | (3) |
| a. The speed acquired | |
| b. The distance travelled | |
| 5. (a)Define uniform circular motion. | (2) |
| (b) Derive second equation of motion graphically. | (3) |