

CLASS:  
IX

**INDIAN SCHOOL MUSCAT**  
**SECOND PERIODIC TEST**  
**SET - A**

SUBJECT:  
SCIENCE

QP.NO.  
PHYSICS

VALUE POINTS

SPLIT UP MARKS

- |    |  |                                 |
|----|--|---------------------------------|
| 1. | Relative density of a substance is defined as the ratio of its density to that of water.   | 1                               |
| 2. | Mass – Quantity of matter in it. It is a scalar quantity. SI unit of mass is kilogram. It is always constant.<br>Weight – The force with which it is attracted towards the centre of earth. It is a vector quantity. SI unit of weight is Newton. It varies from place to place. (any 2 differences) | 1+1                             |
| 3. | Density of plastic is less than that of water. So the buoyant force acting on the block is more than its weight.   | 1+1                             |
| 4. | $h = ut + \frac{1}{2}gt^2$<br>$h = 0 \times 2 + \frac{1}{2} \times (9.8) \times 4$<br>$h = 19.6 \text{ m}$   | $\frac{1}{2} + \frac{1}{2} + 1$ |

CHEMISTRY

- |    |   |  |
|----|---|--|
| 5. | By crystallization  |  |
| 6. | Chromatography: It is based on the difference in solubilities of different solutes in the same solvent.<br>Simple Distillation: It is based on the sufficient difference in boiling points(greater than 25K) of two miscible liquids of the mixture |  |
| 7. | (a)Some elements show the properties of both metals and nonmetals.<br>boron/silicon<br>(b)sodium & mercury are metals   |  |
| 8. | (a)physical change (b) chemical change (c)chemical change (d) physical change   |  |

BIOLOGY

- |     |  |  |
|-----|--|--|
| 9.  | 1. Number of cells<br>2. Presence or absence of well-defined nucleus<br>or any other two characters.             |  |
| 10. | Organisms that are similar enough to breed and perpetuate.   |  |
| 11. | Fungi- Multicellular, Eukaryotic. Monera-Unicellular, Prokaryotic.   |  |
| 12. | Accumulation of changes in body design that allow them to survive better. Charles Darwin, The Origin of species. |  |