

CLASS:
IX

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

SUBJECT:
SCIENCE

QP.NO.

VALUE POINTS

SPLIT UP MARKS

PHYSICS

- | | | |
|----|---|---------|
| 1. | Thrust acting per unit area is called pressure. Its unit is Pascal. | 1/2+1/2 |
| 2. | Gravitational pull of sun on the planet. | 1/2+1/2 |
| | Mass of the sun, mass of the planet, distance between the centres of the sun and the planet | 1/2+1/2 |
| 3. | When a body is partially or wholly immersed in a liquid, it experiences an upthrust which is equal to the weight of the liquid displaced. | 1 |
| | Designing ships and submarines , determining the purity by using lactometer. | 1 |
| 4. | $v^2 - u^2 = 2gh$ | 1/2+1/2 |
| | $0 - 50^2 = 2 \times (-10) \times h$ | 1 |
| | $h = 125m$ | |

CHEMISTRY

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|----|---|--|
| 5. | To separate colours in a dye, pigments from natural colours, drugs from blood → any two | |
| 6. | Physical change: reversible change, chemical composition does not change, no new substance is formed.
Chemical change: irreversible change, chemical composition changes, new substance is formed.
Burning of candle is an example in which both physical and chemical change take place. | |
| 7. | (a) A black mass of iron sulphide is formed
(b) Hydrogen gas is evolved | |
| 8. | Air is a homogeneous mixture and can be separated into components by fractional distillation.
<div style="margin-left: 40px;">Air
 Compress and cool by increasing pressure
V and decreasing temperature
Liquified air
 fractional distillation
V
Gases get separated at different heights
(Nitrogen has the least boiling point gets distilled first. This is followed by argon while oxygen with max. bp distills in the end.)</div> | |

BIOLOGY

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|-----|--|--|
| 9. | Cell structure, mode of nutrition, body organization (any two) | |
| 10. | 1.Fungi
2.Protozoa
3.Monera
4.Fungi | |
| 11. | It makes study easier
It helps in the identification of organism
To study relationship
To study the evolution (any two) | |
| 12. | Organisms having ancient body design are primitive.
Organisms which acquired complexity in body design over evolutionary | |

time are advanced.