



BK BIRLA CENTRE FOR EDUCATION
SARALA BIRLA GROUP OF SCHOOLS
SENIOR SECONDARY | CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL



PRE MID TERM EXAM-I 2024-25

SCIENCE (086) Marking Scheme

Class: X

Duration: 1

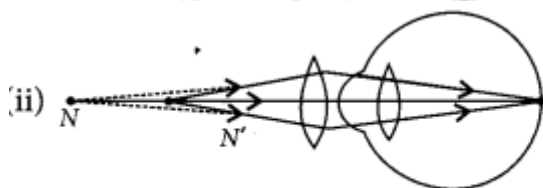
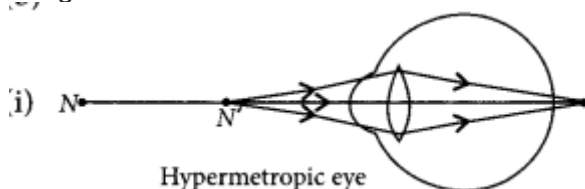
Section A

- | | | |
|----|---|---|
| 1. | d) 12 | 1 |
| 2. | c) Taste | 1 |
| 3. | a) Both A and R are true and R is the correct explanation of A. | 1 |

Section B

- | | | |
|----|---|-----|
| 4. | Distilled water is pure form of water which do not contain any solute in it. Therefore it cannot conduct electricity because it does not contain ions while rain water contains dissolved salts and acids which dissociates in ions and conducts electricity. | 2 |
| 5. | The gas liberated when acid reacts with a metal is hydrogen gas. We can confirm the presence of hydrogen gas by bringing a burning splinter near the test tube. If it burns with a pop sound, the gas liberated is hydrogen. | 2 |
| 6. | (i) Iris is a dark muscular diaphragm that controls the size of the pupil.
(ii) The crystalline lens of human eye focuses the light that enters the eye and form the image on the retina. | 1+1 |

- | | | |
|----|--|-----|
| 7. | | 1+1 |
|----|--|-----|



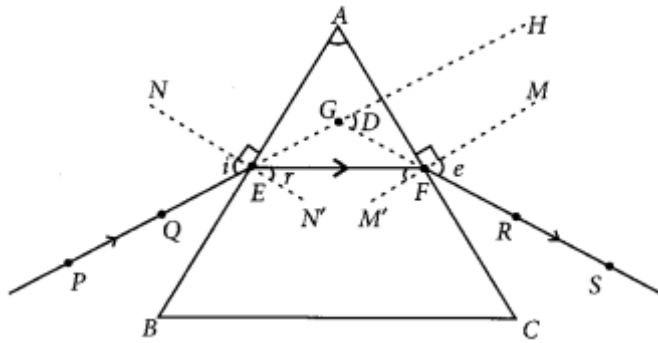
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|----|--|-----|
| 8. | a) Voluntary actions- actions that are controlled by the brain.
Involuntary actions- actions which are not in control of brain. | 1+1 |
| | b) Cerebrum- forebrain, responsible for thinking.
Cerebellum- maintains body posture, balance and precision. | |

Section C

- | | | | |
|----|---|---|---|
| 9. | (a) Bleaching powder | 3 | |
| | (b) $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O} + 3/2\text{H}_2\text{O} \rightarrow \text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ | | 3 |
| | POP WATER GYPSUM | | |

10.

3



- i = angle of incidence
- (a) PE = incident ray
- (b) FS = emergent ray
- (c) $\angle D$ = angle of deviation

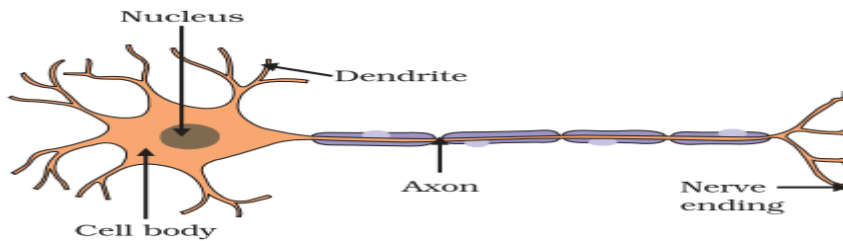
11.

1+1+1

- a) Iodine is important for thyroid gland to produce thyroxine. It prevents goitre.
- b) Adrenaline release adrenaline into blood \rightarrow which acts on heart and other tissues \rightarrow causes faster heart beat \rightarrow more oxygen to muscles \rightarrow reduced blood supply to digestive system and skin \rightarrow increase in breathing rate.
- c) Insulin is released by the pancreas that controls blood sugar level.

12.

3



- i) Dendrites
- ii) Axon.
- iii) Nerve endings