



# B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS  
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL  
MID-APRIL TEST 2025-26  
SCIENCE MARKING SCHEME

Class: X

Date: 15.04.25

Time: 1hour

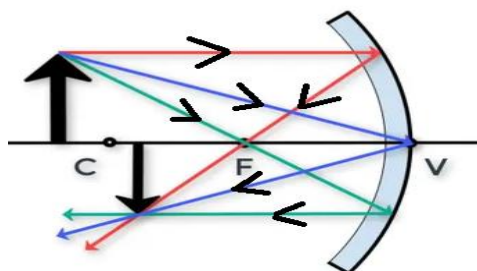
Max Marks: 25

## Section A

1. (b) magnesium oxide 1
2. (d) Between the pole of the mirror and its principal focus. 1
3. (b) Hydrochloric acid 1

## Section B

4. When two or more than two compound/atom/ molecules to form single substances is called a combination reaction.  $\text{CaO} + \text{CO}_2 \rightarrow \text{CaCO}_3$  2
5. Brown coloured gas is evolved ?  $\text{Pb}(\text{NO}_3)_2 \rightarrow \text{PbO} + \text{NO}_2 + \text{O}_2$  2
6. (i) The angle of incidence is equal to the angle of reflection, and 1+1  
(ii) The incident ray, the normal to the mirror at the point of incidence and the reflected ray, all lie in the same plane.
7. 2



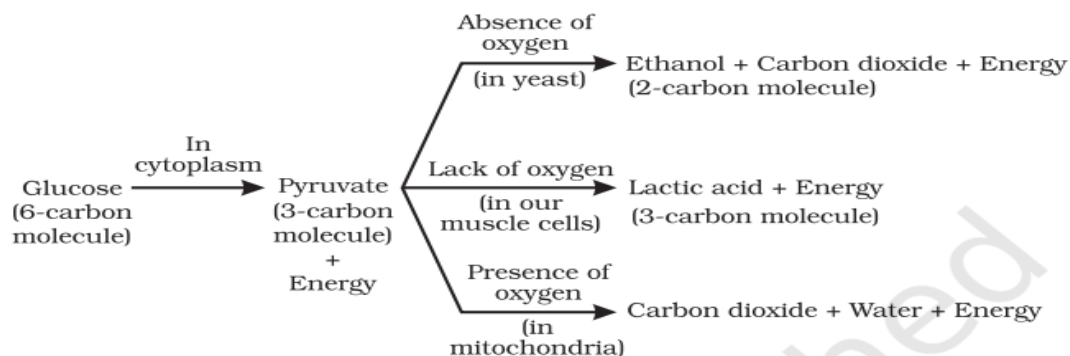
8. (a) Autotrophic nutrition involves organisms (autotrophs) making their own food from inorganic substances, like plants using photosynthesis, while heterotrophic nutrition involves organisms (heterotrophs) obtaining food by consuming other organisms or organic matter 1  
(b) Bile juice helps in emulsification and make the food alkaline for pancreatic juice ½+½

## Section C

9. (a)  $\text{SO}_2$  and  $\text{SO}_3$  Gas are evolved with a suffocating smell. 3  
(b) Decomposition reaction.  
©  $\text{FeSO}_4 \rightarrow \text{Fe}_2\text{O}_3 + \text{SO}_2 + \text{SO}_3$ .
10. (a) Concave mirror: to focus light beam in front of the vehicle. 1  
(b) Convex mirror: for larger view and erect image. 1  
(c) Concave mirror: to focus light beam. 1

11.

1+1+1



12. (a) Rings of cartilage are present in the throat. These ensure that the air-passage does not collapse. 1
- (b) Herbivores eating grass need a longer small intestine to allow the cellulose to be digested. Meat is easier to digest, hence carnivores like tigers have a shorter small intestine. 1
- (c) In multi-cellular organisms, all the cells may not be in direct contact with the surrounding environment. Thus, simple diffusion will not meet the requirements of all the cells. 1