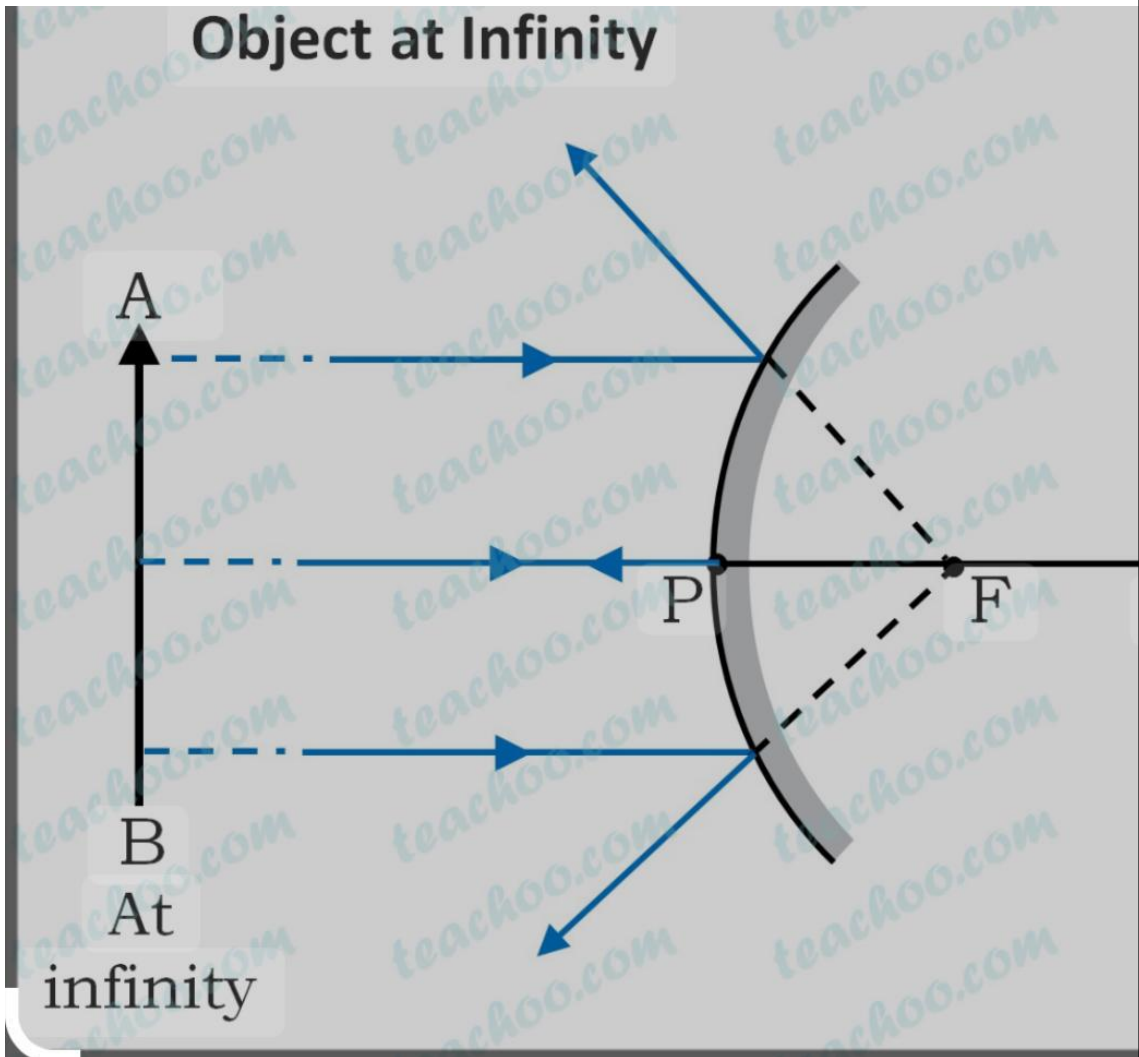
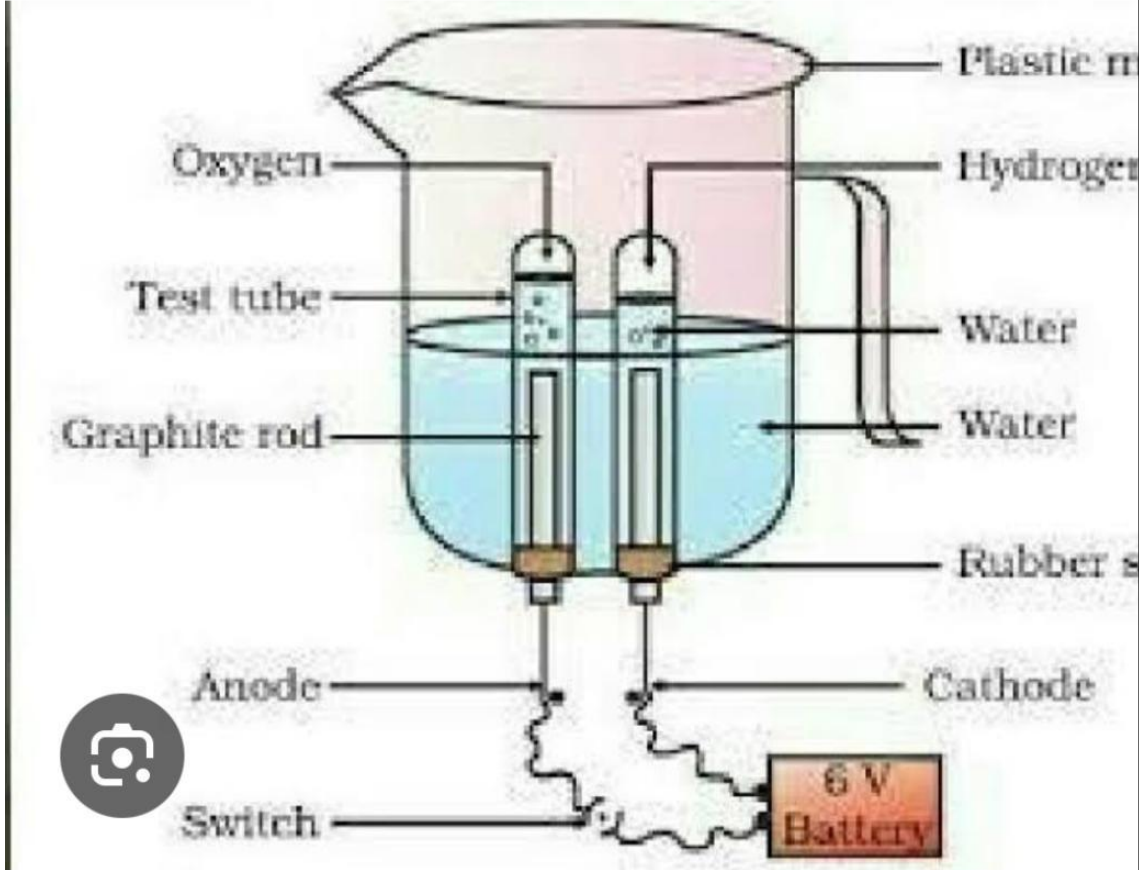
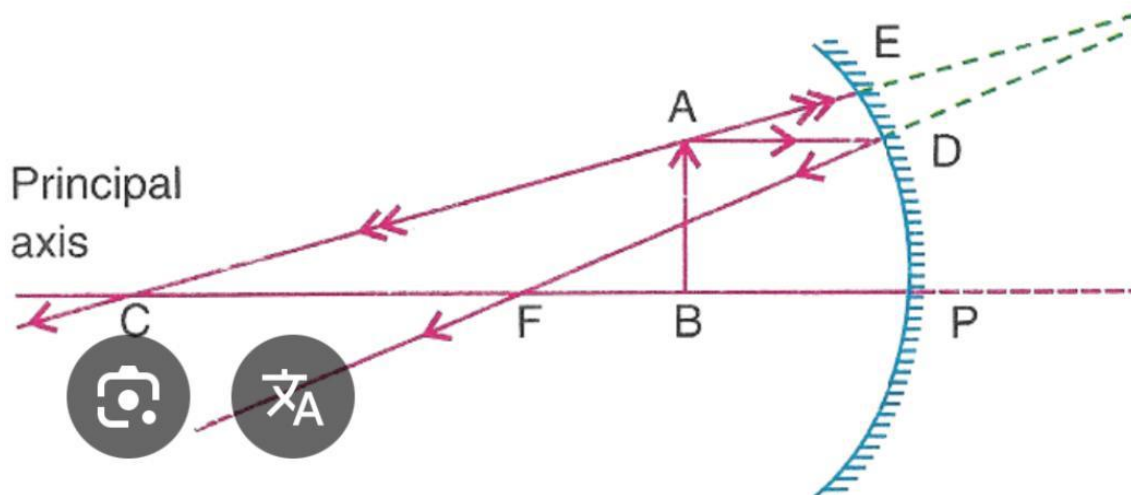




Q.No.	Questions	Marks
1	(d) Black	1
2	(a) 20 cm	1
3	(a) Fe	1
4	<p>Image formed by the convex mirror is virtual erect and diminished.</p> 	2

5		2
6	<p>(a) $\text{Fe} + \text{CuSO}_4 \longrightarrow \text{FeSO}_4 + \text{Cu}$</p> <p>(b) Let nitrate decompose to form lead oxide, nitrogen dioxide, and oxygen.</p> <p>(c) Silver bromide used in black and white photography.</p>	3
7	<p>Balance the following reaction:</p> <p>(a) $\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$</p> <p>(b) $\text{Al}_2(\text{SO}_4)_3 + 3 \text{BaCl}_2 \rightarrow 3\text{BaSO}_4 + 2\text{AlCl}_3$</p> <p>(c) $2\text{Na} + 2 \text{H}_2\text{O} \rightarrow 2\text{NaOH} + \text{H}_2$</p>	3
8	<p>$\frac{1}{u} + \frac{1}{v} = \frac{1}{f}$</p> <p>$-\frac{1}{8} + \frac{1}{v} = -\frac{1}{10}$</p> <p>$V = 40\text{cm}$</p> <p>$m = -v/u = 5$</p> <p>Virtual and erect</p> <p>$h'/h = m$</p> <p>$h' = 10\text{cm}$</p>	3

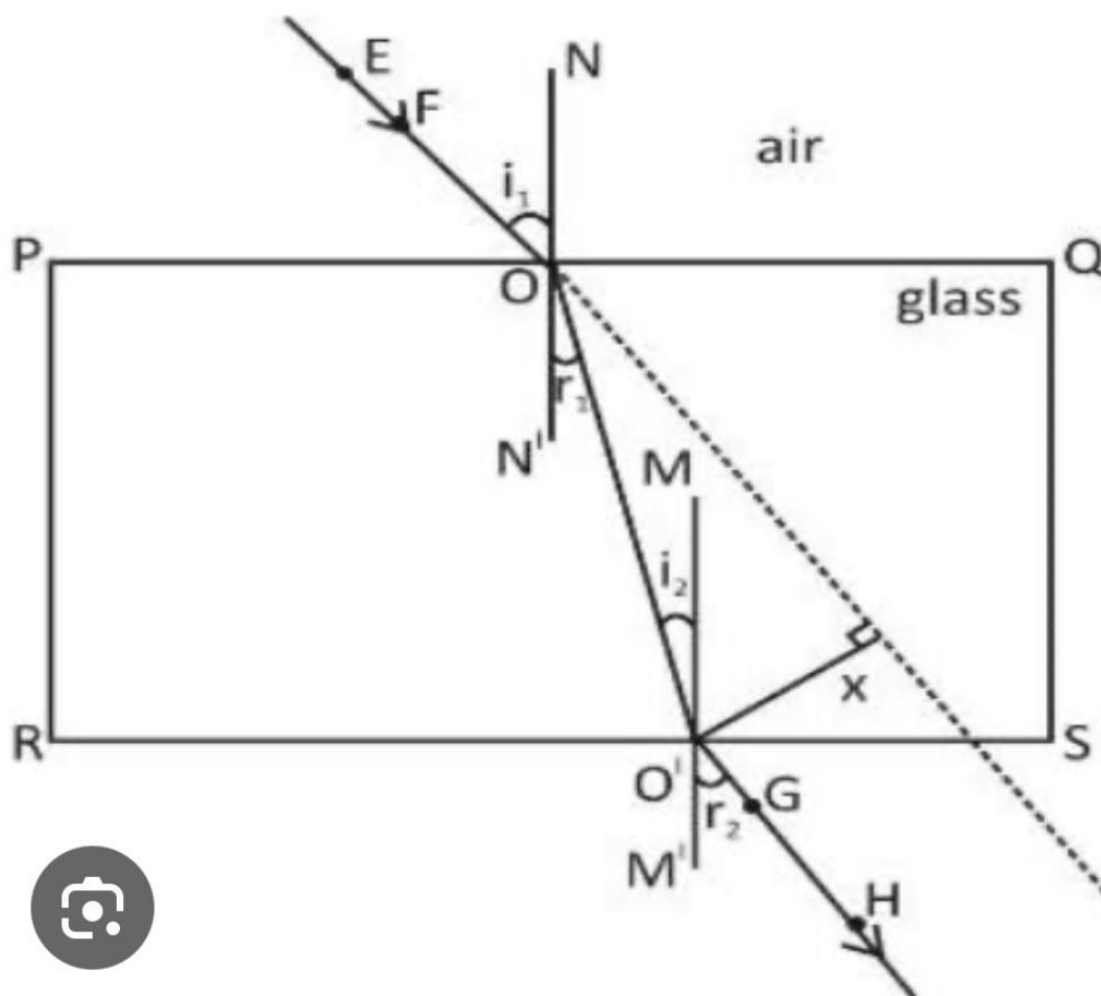


4

(a) speed of light changes when it goes from one transparent, medium to another transparent medium this is the cause of refraction.

(b towards

(c)



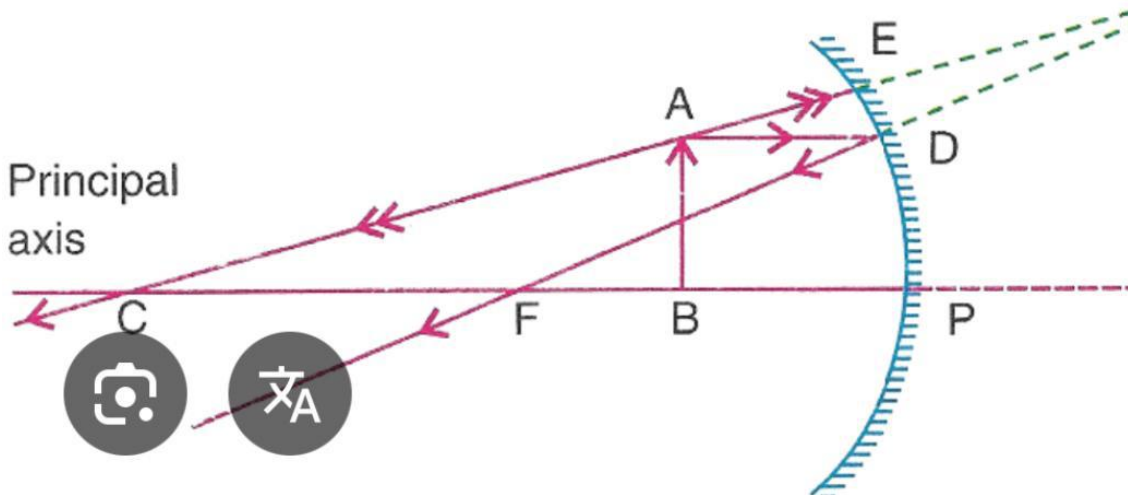
	Biology	
1	Haemoglobin	1
2	Desert plant, open their stomata during night they will take on carbon dioxide and make an intermediate during daytime. They convert that intermediate into carbohydrates.	2
3	a) To prevent its collapsing, even in absence of air. b) After heavy exercise, there will be lack of oxygen in muscle cells and pyruvate will converted into lactic acid.	2
4	1. bile juice helps in emulsification of fats and provide alkaline medium to activate pancreatic enzymes. Bile juice is secreted by liver and stored in gallbladder.	2
5	a. HCL- to kill germs and activate Pepsin b. Mucus- prevent lining of stomach from HCL c. Pepsin- to digest proteins.	3

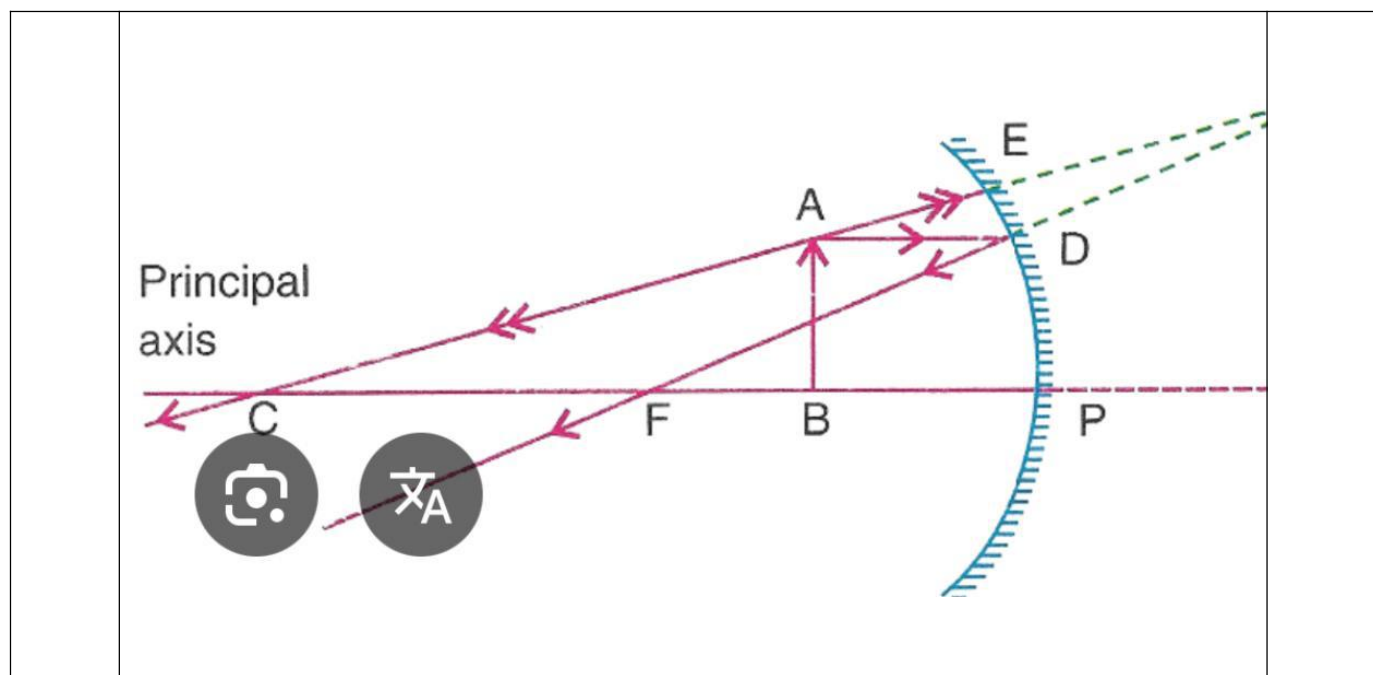


OSDAV Public School, Kaithal
First Unit Test (May, 2025)
Class : X
Subject : Science

SET-B

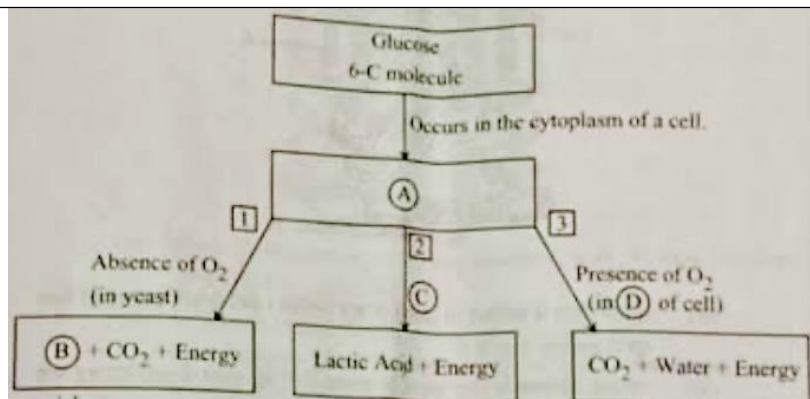
Q.No.	Questions	Marks
1	(b) CuSO_4	1
2	(b) 40 cm	1
3	Green	1
4		2
5	concave mirror give virtual erect and large image of the object.	2

		
6	<p>(a) $\text{Na}_2\text{SO}_4 + \text{BaCl}_2 \longrightarrow \text{BaSO}_4 + \text{NaCl}$</p> <p>(b) Limestone decompose to form calcium oxide and carbon dioxide.</p> <p>(c) To prevent silver chloride from decomposition and sunlight.</p>	3
7	<p>Balance the following reaction:</p> <p>(a) $\text{H}_2 + \text{Cl}_2 \rightarrow 2\text{HCl}$</p> <p>(b) $\text{Al}_2(\text{SO}_4)_3 + 3\text{BaCl}_2 \rightarrow 3\text{BaSO}_4 + 2\text{AlCl}_3$</p> <p>(c) $2\text{Na} + 2\text{H}_2\text{O} \rightarrow 2\text{NaOH} + \text{H}_2$</p>	3
8	<p>$\frac{1}{u} + \frac{1}{v} = \frac{1}{f}$</p> <p>$-\frac{1}{8} + \frac{1}{v} = -\frac{1}{10}$</p> <p>$v = 40\text{cm}$</p> <p>$m = -v/u = 5$</p> <p>Virtual and erect</p> <p>$h'/h = m$</p> <p>$h' = 10\text{cm}$</p>	3



9	<p>(a) speed of light changes when it goes from one transparent, medium to another transmit medium. This is the cause of refraction.</p> <p>(b)towards</p> <p>(c) 1) incident ray, refracted ray , and normal to the interface of two transparent media at the point of incidence all lie in the same plane.</p> <p>2) ratio of sine of angle of incidence to sine of angle of refraction is equal to constant for the light of given colour for the given pair of media. This law is also known as snells law refraction.</p>	4
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	Biology	
1	plants- starch and animals- glycogen	1
2	Write the steps of photosynthesis in correct sequence.	2
3	<p>a) How small intestine is designed for maximum absorption of food?</p> <p>b) Bile juice is neither an enzyme nor a hormone, still important for digestion of food. Justify.</p>	2
4	<p>How inhalation is different from exhalation on the basis of</p> <p>a) shape of diaphragm. b) rib cage</p>	2
5	a) Complete the following flow chart as per the given instructions and label A,B,C and D.	3



b) Why plants release carbon dioxide during night but oxygen during day?