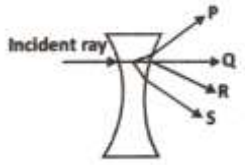
STAR OLYMPIAD FOUNDATION

SAMPLE PAPER

INTERNATIONAL SCIENCE OLYMPIAD- CLASS X

1. An incident ray striking a diverging lens is shown below.



Identify the emergent ray.

(A) P (B) S (C) R (D) Q

Answer: (A)

As per the given figure emergent ray P is the correct one when an incident ray strikes a diverging lens.

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2. A red coloured object appears red as it _____ red colour

(A) absorbs (B) allows (C) refracts (D) reflects

Answer: (D)

A red coloured object appears to be red because it reflects red colour.

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3. Which one is a neutralisation reaction?

(A) $NaOH + HCl \rightarrow NaCl + H_2O$

(B) $Zn + 2HCl \rightarrow ZnCl_2 + H_2$

(C) $2KClO_3 \rightarrow 2KCl + 3O_2$

(D) $H_2 + I_2 \rightarrow 2HI$

Answer: (A)

Reaction of NaOH with HCl to form NaCl (common salt) + H_2O is a neutralisation reaction.

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4. Black diamonds are called

(A) carnado (B) carbonado (C) carbond (D) all of these

Answer: (B)

Black diamonds are called carbonado.

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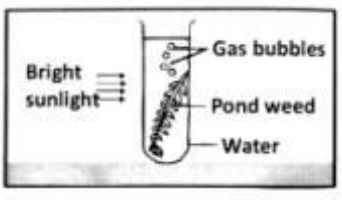
5. Identify the gas that is evolved as gas bubbles in the test tube.



(A) Oxygen (B) Carbon dioxide (C) Nitrogen (D) Hydrogen

Answer: (A)

During photosynthesis plants take in carbon dioxide and give out oxygen.

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6. Which of the following represents trophic levels in an ecosystem?

(A) Water level (B) Salt level (C) Energy level (D) Oxygen level

Answer: (C)

Energy levels in an ecosystem are represented as trophic levels (feeding levels).

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