STAR OLYMPIAD FOUNDATION

SAMPLE PAPER

INTERNATIONAL SCIENCE OLYMPIAD- CLASS VII

1. In a marathon, varun runs 800 meters in 2 minutes 40 seconds. What is his speed in meters per second?

   (A) 4 m s^{-1} (B) 5 m s^{-1} (C) 200 m s^{-1} (D) 1600 m s^{-1}

   Answer: (B)

   Speed = $\frac{Distance}{Time} = \frac{800}{160}$ = 5 m s^{-1}

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2. A convex mirror always forms a/an

   (A) Erect, virtual, diminished image (B) erect, real, diminished image

   (C) erect, real, enlarged image (D) erect, virtual, enlarged image.

   Answer: (A)

   A convex mirror always forms a erect, virtual and diminished image of the object.

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3. What kind of change is neutralisation ?

   (A) A physical change

   (B) Neither a physical nor a chemical change

   (C) Sometimes a physical and sometimes a chemical change.

   (D) A chemical change

   Answer: (D)

   Neutralisation is a chemical change in which an acid reacts with a base to form salt and water.

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4. What do toothpastes contain ?

   (A) Strong acids (B) Bases (C) Acid oxides (D) Metals

   Answer: (B)

   Toothpastes contain bases.

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5. Earthworms respire through which of the following organs ?

   (A) Typhlosole (B) Ctenidia (C) Clitellum (D) Moist skin

   Answer: (D)

   Earthworm respires through moist skin.

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6. The stem in the given figures shows swelling in its upper portion. Which of the following reasons is true about the swelling of the stem ?

   (A) Downward movement of food is blocked (B) Upward movement of food is blocked

(C) Upward movement of water is blocked (D) Downward movement of water is blocked

Answer: (A)

In the given figure phloem is removed while girdling. Due to the removal of phloem downward movement of food is blocked.

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