



MCQs:

1. Which of the following statement/s is/are true?

- 1. Gravitational lensing can magnify the image of the star as we see it.**
- 2. Gravitational Lensing is a term that implies that the gravity of the galaxy causes it to act like a lens and distort and magnify the light from the star.**

- (a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2

Ans: c

Explanation:

- Gravitational lens can occur when a huge amount of matter, like a cluster of galaxies, creates a gravitational field that distorts and magnifies the light from distant galaxies that are behind it but in the same line of sight.
- it allows researchers to study the details of early galaxies too far away to be seen with current technology and telescopes.

2. Bodhisattva Padmapani Painting is a part of?

- (a) Ellora Painiting
(b) Ajanta Painting
(c) Bagh Painting
(d) Sittanavasal Paintings

Ans: b

Explanation: Bodhisattva Padmapani • Avalokitesvara • Reclining Budha • Dying Princess are part of Ajanta Painting

3. The element which is a constituent of chlorophyll and gives green colour to the leaf of plant is

- (a) Sodium



- (b) Copper
- (c) Potassium
- (d) Magnesium

Ans: d

Explanation:

- The chlorophyll molecule consists of a central magnesium atom surrounded by a nitrogen-containing structure called a porphyrin ring;

4. Which of the following statement/s are true?

1. chital, is the most common deer species in Indian forests.

2.Its IUCN Status is Endangered.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Ans: a

- **IUCN Status - Least Concern.**
- **It lives in grasslands and forests in India and Sri Lanka.**

5. The reason behind the spectacular brilliance of diamonds and twinkling of stars is:

- (a) Total internal reflection
- (b) Total external reflection
- (c) Partial reflection
- (d) None of the above

Ans: a

Total internal reflection, in physics, complete reflection of a ray of light within a medium such as water or glass from the surrounding surfaces back into the medium.