



MCQs:

1. Consider the following statements.

1. Statement 1: Green hydrogen is a clean energy source.
2. Statement-II: It is produced through the electrolysis of water using renewable energy sources such as wind, solar, and hydropower.

Which one of the following is correct in respect of the above statements

- (a) Both Statements-I and Statement II are correct and Statement- II is the correct explanation for Statement-I
- (b) Both Statement-I and Statement-II are correct and Statement- II is not the correct explanation for Statement-I
- (c) Statement-I is correct but Statement- II is incorrect
- (d) Statement-I is incorrect but Statement II is correct

Ans: a

Explanation:

- Green hydrogen is a clean energy source produced through the electrolysis of water using renewable energy sources such as wind, solar, and hydropower. It has the potential to become a key player in the transition to a carbon-free economy and can help mitigate climate change. The hydrogen produced can be stored and used as fuel for transportation, industry, and agriculture.

2. Green hydrogen is expected to play a significant role in decarbonizing how many of the below industries?

1. Fertilizer plants

2. Oil refineries

3. Steel plants

- (a) Only one
- (b) Only two
- (c) All three



(d) None

Ans: c

Explanation:

- Hydrogen use today is dominated by industry, namely: oil refining, ammonia production, methanol production and steel production.
- India is prioritising green hydrogen as a potential solution to decarbonise hard-to-abate sectors such as refinery, ammonia, methanol, iron and steel and heavy-duty trucking.

3. Cepheid Variables are?

(a) Moons

(b) Stars

(c) Planeta

(d) Dwarf planets

Ans: b

Explanation:

- The Cepheid variable is one of a class of variable stars whose periods (i.e., the time for one cycle) of variation are closely related to their luminosity and that are therefore useful in measuring interstellar and intergalactic distances.

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

1. The G-20 group was originally established as a platform for the Finance Ministers and Central Bank Governors to discuss international economic and financial issues.
2. Digital public infrastructure is one of India's G-20 priorities.

(a) 1 only

(b) 2 only

(c) Both 1 and 2

(d) Neither 1 nor 2



Ans: c

Explanation:

- Both statements are true.
- Together, the G20 countries account for almost two-thirds of the global population, 75% of global trade, and 85% of the world's GDP.

5. Besnagar is a?

- (a) Shaivite cave shrine
- (b) Buddhist cave shrine
- (c) Jain cave shrine
- (d) Vaishnavite cave shrine

Ans: d

Explanation:

- The Greek ambassador called Heliodorus set up a pillar in honour of Lord Vasudeva at Besnagar near Vidhisa in MP around the middle of the second century BC.
- It is a Vaishnavite cave shrine.