

Q: Rakthashali and Rajamudi, sometimes seen in the news is related to which of the following?

- a) Indigenous dog breeds
- b) Indigenous paddy varieties
- c) Indigenous cattle breeds
- d) Indigenous Languages

Ans: b

Explanation:

- Rakthashali is a rare and precious variety of rice.
- It is a medicinal rice that is dark red in colour and medium in quality.
- It is a small and slender-grained rice that is unpolished and has full bran.
- Rakthashali is used in Ayurveda to treat imbalances in the body.
- Rajamudi is a rice variety cultivated in a small area around Hassan, Karnataka which is popular for its taste and perceived health benefits.
- It is a variety of red rice that was earlier grown exclusively for the Wadiyars or Maharajas of Mysore in Karnataka.

Q: With reference to Jerezo, consider the following statements:

1. It is a crater in the south pole of the Moon.
2. Recently it have been confirmed that there is evidence of ancient lake sediments deposited by water in this site.

Which of the above statement(s) is/are correct?

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

Ans: b

Explanation:

- Jerezo is a crater on Mars that is about 45 kilometers in diameter.
- It is located in the Syrtis Major quadrangle and is thought to have once been filled with water.
- Recently NASA's rover Perseverance have confirmed that there is evidence of ancient lake sediments deposited by water in this site.
- Radar observations by the rover also reveal sedimentary-like features resembling river deltas on Earth.
- The portions of Jerezo were once covered in water and may have harboured microbial life.

Q: Consider the following statements with respect to UF Water Purifier

1. It utilizes a membrane-based technology called ultrafiltration to effectively cleanse water.
2. The purifier can be used only in the industrial sector.
3. It eliminates both the pollutants and minerals such as magnesium, calcium, and potassium in the impure water.

How many of the statements given above are correct?

- a) Only one
- b) Only two
- c) All Three
- d) None of the above

Ans: a

Explanation:

- minerals like magnesium, calcium, and potassium pass through.

Q: Consider the following statements with respect to Aurangzeb:

1. The Visvanatha Temple of Banaras was the only temple built during his reign.
2. During his reign the ambassador by King James I, succeeded in securing permission to establish a British factory at Surat.

3. He is contemporary to the Louis XIV of France.

How many of the statements given above are correct?

- a) Only one
- b) Only two
- c) All Three
- d) None of the above

Ans: d

Explanation:

- Aurangzeb, the last of the Great Mughals, started off his reign by imprisoning his old father.
- He was no lover of art like his grandfather Jahangir and architecture like his father Shah Jahan.
- He assumed the title Alamgir and re-imposed the jizya tax on Hindus.
- He tolerated no religion excepting Islam.
- Aurangzeb remained in the North and suppressed the revolt of Bundelas, Jats, Satnamis and Sikhs.
- Aurangzeb's expansion in the North-East resulted in a war with the Ahoms of Kamarupa (Assam).
- The kingdom came under repeated attacks of the Mughals, but it could not be subdued totally.
- The Visvanatha Temple of Banaras was built during the reign of Akbar by Raja Man Singh.
- During the Jahangir reign the ambassador by King James I, succeeded in securing permission to establish a British factory at Surat.
- Shah Jahan was contemporary of Louis XIV of France.

Q: The criteria to identify a planet includes:

- a) It must orbit a star.
- b) It must be big enough that gravity has forced it into a spherical shape.
- c) It must be big enough that its own gravity has cleared away any other objects of a similar size near its orbit.
- d) All the above.

Ans: d

Explanation:

The Criteria of a planet were set by the International Astronomical Union.

The criteria to identify a planet includes:

- It must orbit a star (in our Solar System this would be the Sun).
- It must be big enough that gravity has forced it into a spherical shape.
- It must be big enough that its own gravity has cleared away any other objects of a similar size near its orbit.
- The 3rd criterion was the reason for elimination of Pluto as a planet. It hasn't cleared its neighbouring region of other objects.