

Q: Consider the following statement regarding British Academy Book Prize:

1. This was formerly known as the Nayef Al-Rodhan Prize.
2. The British Academy is the UK's national academy for humanities and social sciences.
3. Alia Trabucco Zerán is the winner of this award in 2023.

Choose the correct option from the codes given below:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) 1, 2 and 3

Ans: a

Explanation:

- British Academy Book Prize was formerly known as the Nayef Al-Rodhan Prize.
- It was established in 2013.
- It was established to reward and celebrate the best works of non-fiction that demonstrate rigour and originality and have contributed to public understanding of other world cultures and their interactions.
- The British Academy is the UK's national academy for humanities and social sciences.
- The eligible books come from the subjects that fall within those disciplines, from archaeology, history, and psychology to philosophy, languages, and cultural studies.
- Nandini Das who is a Professor in the English faculty at the University of Oxford, won the award for her book 'Courting India: England, Mughal India and the Origins of Empire'
- The winner gets the £25,000 prize cash award, and each of the shortlisted works will receive £1,000 each.

Q: Consider the following statement regarding the State Food Safety Index:

1. The steepest fall in scores over five years was seen in Chhattisgarh.
2. The worst drop has been recorded in the 'Food Testing Infrastructure' parameter.
3. The 'Human Resources and Institutional Data' parameter, was given the third highest weightage of 18 per cent in 2023.

Choose the correct option from the codes given below:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) 1, 2 and 3

Ans: b

Explanation:

State Food Safety Index:

- After adjusting for a new parameter included in the 2023 index, 15 out of 20 states recorded lower 2023 scores compared to 2019.
- The steepest fall in scores over five years was seen in Maharashtra, Bihar, Gujarat,
- The worst drop has been recorded in the 'Food Testing Infrastructure' parameter.
- States including Maharashtra, Bihar, Andhra Pradesh, and Chhattisgarh all recorded lower scores for this parameter.
- Gujarat, Madhya Pradesh, and Jharkhand, meanwhile, recorded lower scores for the 'Compliance' parameter.
- The 'Human Resources and Institutional Data' parameter, was given the third highest weightage of 18 per cent in 2023 (20 per cent in previous years).

Q: Consider the following statement regarding White Hydrogen:

1. White hydrogen is also referred to as "natural," "gold" or "geologic" hydrogen.
2. It causes no CO2 emissions when used as a fuel.

Choose the correct option from the codes given below:

- a) 1 Only
- b) 2 Only
- c) 1 and 2
- d) None of the above

Ans: c

Explanation:

- White hydrogen is also referred to as “natural,” “gold” or “geologic” hydrogen.
- It is naturally produced in the Earth’s crust and is considered a potential source of clean energy.
- It generally exists combined with other molecules.
- It causes no CO₂ emissions when used as a fuel.
- Its deposits have been found across the world, including in the US, Eastern Europe, Russia, Australia, France, and other countries.
- It is estimated that globally, there could be tens of billions of tonnes of white hydrogen.

Q: Consider the following statement regarding Propane:

1. It is an alkane, which means it consists of only single covalent bonds.
2. It is the third member of the paraffin series.
3. It is commercially available as liquefied propane.

Choose the correct option from the codes given below:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) 1, 2 and 3

Ans: d

Explanation:

- Propane is a colourless, easily liquefied, gaseous hydrocarbon (compound of carbon and hydrogen).
- It is an alkane, which means it consists of only single covalent bonds between carbon and hydrogen atoms.
- It is the third member of the paraffin series, following methane and ethane.
- The chemical formula for propane is C₃H₈.
- It is a byproduct of natural gas processing and petroleum refining.
- It is also produced during the fractional distillation of crude oil.
- It is commercially available as liquefied propane or as a major constituent of liquefied petroleum gas (LPG).
- It has a high-octane rating, making it an excellent choice for spark-ignited internal combustion engines.

Q: Consider the following statement regarding Awaous Motla:

1. The species belongs to the family 'Awaous'.
2. It is a fish with a vibrant yellow-coloured body.
3. It is collected from Ganges River only.

Choose the correct option from the codes given below:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) 1, 2 and 3

Ans: a

Explanation:

- Awaous Motla is a fish with a vibrant yellow-coloured body and a fleshy upper lip.
- It was collected from the Mahanadi River.
- The discovery was made during the ongoing research project funded by the Department of Science and Technology of the Odisha government.

- The species belongs to the family 'Awaous' (Oxudercidae) and is thus named 'Awaous motla.