

Q: Consider the following statement regarding Ujjwala 2.0:

1. It aims to empower women and protecting their health.
2. Objective is to reduce the number of deaths in India due to unclean cooking fuel.
3. Migrant workers are not eligible for this scheme.

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:

- Pradhan Mantri Ujjwala Yojana Launched in May 2016.
- To provide LPG (liquefied petroleum gas) connections to poor households.
- Empowering women and protecting their health.
- Reducing the serious health hazards associated with cooking based on fossil fuel.
- Reducing the number of deaths in India due to unclean cooking fuel.
- Migrant workers would no longer have to struggle to get address proof documents to get the gas connections.
- They workers would only be required to submit a self-declaration of their residential address to get the gas connection.

Q: Consider the following statement regarding Ramanujan Prize:

1. The prize is related with the contribution in the field of Physic.
2. For 2022, the award is presented to Yunqing Tang.
3. Her works display a remarkable combination of sophisticated techniques, in which the arithmetic and geometry of modular curves and of Shimura varieties play a central role.

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:

- The SASTRA Ramanujan Prize for 2022 will be awarded to Yunqing Tang, Assistant Professor with the University of California, Berkeley, U.S.A.
- It is presented annually to individuals aged 32 and below, who made outstanding contributions in the field of mathematics, influenced by Srinivasa Ramanujan in a broad sense.
- The award, instituted by the Shanmugha Arts, Science, Technology & Research Academy (SASTRA) in 2005 with a cash prize of \$10,000.
- Her works display a remarkable combination of sophisticated techniques, in which the arithmetic and geometry of modular curves and of Shimura varieties play a central role, and her results and methods are bound to have major impact on future research in this area.

Q: Consider the following statement:

1. Svante Paabo was awarded the 2022 Nobel Prize in Medicine
2. His research proved that modern humans share DNA with extinct relatives Neanderthals and Denisovans.

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:

- Recently, Svante Paabo was awarded the 2022 Nobel Prize in Medicine for his extraordinary discovery which proved modern humans share DNA with extinct relatives Neanderthals and Denisovans.
- He sequenced the genome of the Neanderthal, an extinct relative of present-day humans, and made the sensational discovery of a previously unknown hominin, Denisova.
- Svante Paabo is the son of Sune Bergstrom, who won the Nobel prize in medicine in 1982.

Q: Consider the following statement regarding Light Combat Helicopter (LCH):

1. It was inducted into the IAF's newly raised 143 Helicopter Unit.
2. It is an attack helicopter that can be deployed in various roles.
3. The name given to the new chopper is Prachanda.

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:

- Recently, the Indian Air Force (IAF) has formally inducted the first batch of indigenously-developed Light Combat Helicopter (LCH) at an event in Rajasthan's Jodhpur.
- It was inducted into the IAF's newly raised 143 Helicopter Unit.
- Designed and developed ground-up by Hindustan Aeronautics Limited (HAL), the Defence Minister gave the new chopper, the name of Prachanda.
- The LCH, designed and manufactured by HAL, is an **attack helicopter that can be deployed in various roles**, including tracking slow-moving aerial targets, insurgency, destroying enemy defences, search and rescue, anti-tank and scouting.

Q: Consider the following statement:

1. Jharkhand, Rajasthan, Delhi, Gujarat and Goa have more than 50% of land area undergoing desertification.
2. According to the Desertification and Land Degradation Atlas, at least 30% of India's total geographical area is under the category of "degraded land".
3. Desertification and Land Degradation Atlas published by NITI Aayog.

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:

- According to the Desertification and Land Degradation Atlas published by the Environment Ministry in 2021, at least 30% of India's total geographical area is under the category of "degraded land".
- Jharkhand, Rajasthan, Delhi, Gujarat and Goa have more than 50% of land area undergoing desertification or degradation, while States with less than 10% land degradation are Kerala, Assam, Mizoram, Haryana, Bihar, Uttar Pradesh, Punjab and Arunachal Pradesh.