

Que-1 With reference to National Intellectual Property Awareness Mission (NIPAM), consider the following statements

1- A flagship program to impart Intellectual Property (IP) awareness and basic training.

2- The program is being implemented by Ministry of Telecommunication.

Which of the following given above is/are correct

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

Que-2 With reference to Fortification of rice, consider the following statements

1- It is found to be a cost-effective and complementary strategy to increase vitamin and mineral content in diets with low turnaround time (TAT).

2- It helps in fighting anaemia and malnutrition in the country.

3- Various technologies are available to add micronutrients to regular rice, such as coating, dusting, and 'extrusion'.

Which of the following given above is/are correct

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

Que-3 What is Langya virus?

1- The newly discovered virus is a "phylogenetically distinct Henipavirus".

2- Langya is known to cause fever.

3- Virus has jumped from an animal to humans.

Which of the following given above is/are correct

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

Que-4 What is Open Network for Digital Commerce (ONDC)?

1- It is an initiative aimed at promoting open networks for all aspects of exchange of goods and services over digital or electronic networks.

2- ONDC is to be based on open-sourced methodology, using open specifications and open network protocols dependent on few platform only.

3- It is being developed as a counter to the current duopoly in the Indian e-commerce market which is largely dictated by Amazon and Walmart-owned Flipkart.

Which of the following given above is/are correct

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

Que-5 Consider the following statements about PFM-1 and PFM-1S 'Butterfly Mine', recently in News

- 1- The PFM-1 and PFM-1S are two kinds of anti-personnel landmines that are commonly referred to as 'Butterfly mines' or 'Green Parrots'.
- 2- These names are derived from the intensity of blast.
- 3- The main difference between the PFM-1 and PFM-1S mine is that the latter comes with a self-destruction mechanism which gets activated within one to 40 hours.

Which of the following given above is/are correct

- a) 2 only b) 1 and 3 only
c) 1, 2 and 3 d) 2 and 3 only
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Que-6 What is a mangrove forest?

- 1- Mangroves are a group of trees and shrubs that live in the coastal intertidal zone.
- 2- Mangrove trees grow in areas with low-oxygen soil, where slow-moving waters allow fine sediments to accumulate.
- 3- Mangrove forests grow at all latitudes.

Which of the following given above is/are correct

- a) 1 and 2 only b) 3 only
c) 1, 2 and 3 d) 2 and 3 only
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Que-7 With reference to Criminal Procedure (Identification) Act, 2022, consider the following statements

- 1- This provides legal sanction to law enforcement agencies for "taking measurements of convicts and other persons for the purposes of identification and investigation of criminal matters".
- 2- It empowers the existing Identification of Prisoners Act, 1920.

Which of the following given above is/are correct

- a) 1 only b) 2 only
c) Both 1 and 2 d) Neither 1 nor 2
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Que-8 Consider the following statements about "SMILE-75 Initiative"

- 1- Launched by Ministry of Skill Development And Entrepreneurship.
- 2- Under the SMILE-75 initiative, seventy five (75) Municipal Corporations in collaboration with NGOs and other stakeholders will cover several comprehensive welfare measures for persons who are engaged in the act of begging.
- 3- The objective of SMILE- 75 is to make our cities/town and municipal areas begging-free and make a strategy for comprehensive rehabilitation of the persons engaged in the act of begging through the coordinated action of various stakeholders.

Which of the following given above is/are correct

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

ANSWER

1- (a)

- The program is being implemented by Intellectual Property Office, the Office of Controller General of Patents, Designs and Trade Marks (CGPDTM), Ministry of Commerce and Industry.

2- (c)

- Various technologies are available to add micronutrients to regular rice, such as coating, dusting, and 'extrusion'. The last mentioned involves the production of fortified rice kernels (FRKs) from a mixture using an 'extruder' machine. It is considered to be the best technology for India.
- Rice is one of India's staple foods, consumed by about two-thirds of the population. Per capita rice consumption in India is 6.8 kg per month. Therefore, fortifying rice with micronutrients is an option to supplement the diet of the poor.

3- (c)

- This new type of Henipavirus is also being called Langya Henipavirus or the LayV.
- Henipaviruses are classified as biosafety level 4 (BSL4) pathogens. They can cause severe illness in animals and humans, and as of now there are no licensed drugs or vaccines meant for humans.
- Virus has jumped from an animal to humans.
- The types of Henipaviruses that had been identified prior to this included Hendra, Nipah, Cedar, Mojiang and the Ghanaian bat virus. According to the US CDC, the Cedar virus, Ghanaian bat virus, and Mojiang virus are not known to cause human disease. But Hendra and Nipah infect humans and can cause fatal illness.
- Langya's genome organization is "identical to that of other Henipaviruses", and that it is closely related to the "Mojiang Henipavirus, which was discovered in southern China".

4- (b)

- ONDC is to be based on open-sourced methodology, using open specifications and open network

protocols independent of any specific platform.

5- (b)

- These names are derived from the shape and colour of the mines.
- The 'Butterfly mine' has earned a reputation for being particularly attractive to children because it looks like a coloured toy. It is very sensitive to touch and just the act of picking it up can set it off. Because of the relatively lesser explosive packed in this small mine, it often injures and maims the handler rather than killing them. These mines are also difficult to detect because they are made of plastic and can evade metal detectors.

6- (a)

- Mangrove forests only grow at tropical and subtropical latitudes near the equator because they cannot withstand freezing temperatures.
- Many mangrove forests can be recognized by their dense tangle of prop roots that make the trees appear to be standing on stilts above the water. This tangle of roots allows the trees to handle the daily rise and fall of tides, which means that most mangroves get flooded at least twice per day. The roots also slow the movement of tidal waters, causing

sediments to settle out of the water and build up the muddy bottom.

- Mangrove forests stabilize the coastline, reducing erosion from storm surges, currents, waves, and tides. The intricate root system of mangroves also makes these forests attractive to fish and other organisms seeking food and shelter from predators.

7- (a)

- It repeals the existing Identification of Prisoners Act, 1920.
- Like the Identification of Prisoners Act, 1920, the new Criminal Procedure (Identification) Act, 2022 provides for legal sanction to law enforcement agencies for the collection of measurements. The purpose is to create a useable database of these measurements. While at the State level, each State is required to notify an appropriate agency to collect and preserve this database of measurements, at the national level, the National Crime Records Bureau (NCRB) is the designated agency to manage, process, share and disseminate the records collected at the State level.

8- (d)

- Launched by Ministry of Social Justice & Empowerment.
 - Under the SMILE-75 initiative, seventy five (75) Municipal Corporations in collaboration with NGOs and other stakeholders will cover several comprehensive welfare measures for persons who are engaged in the act of begging with focus extensively on rehabilitation, provision of medical facilities, counselling, awareness, education, skill development, economic linkages and convergence with other Government welfare programmes etc.
 - The Ministry of Social Justice & Empowerment has allocated a total budget of Rs.100 crore for the SMILE project for coming years till 2025-26. Through this project, the Ministry envisions to develop a support mechanism for holistic rehabilitation of those engaged in the act of begging and build an India where no person is forced to beg in order to survive and fulfill their basic needs.
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