

Que-1 With reference to Chang Zheng 3B, commonly known as CZ 3B, recently in News, consider the following statements

- 1- It is Japan's orbital launch vehicle.
- 2- The 3B denotes the Long March 3B model in the Long March' rockets family.

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-2 Which is/are true about impact made by a natural and man-made space debris

- 1- Most pieces of space debris burn up as they enter the Earth's atmosphere, the process starting from around a height of 100 km from Earth's surface to 20 km.
- 2- In cases of man-made debris, it often disintegrates into fragments, thus hardly ever creating large-scale impact.
- 3- It is usually natural debris, such as asteroids and meteoroids, that cause relatively large-scale craters, if it ends up hitting a landmass.

Which of the following given above is/are correct

- a) 2 only b) 1 and 3 only
c) 1, 2 and 3 d) 3 only
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Que-3 With reference to GatiShakti Sanchar portal, recently launched, consider the following statements

- 1- This will centralise and speed up approvals for laying of fibre and tower installations.
- 2- This will facilitate centralised Right of Way (RoW) approvals.
- 3- It will offers a unified, integrated, centralised approach covering only central government ministries.

Which of the following given above is/are correct

- a) 1 and 2 only b) 3 only
c) 1, 2 and 3 d) 2 only
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Que-4 With reference to recently launched National Cyber Forensic Lab, consider the following statements about

- 1- Recently inaugurated at Central Forensic Science Laboratory (CFSL) campus in Hyderabad.
- 2- This will speed up the process for disposal of cybercrime cases in the country.
- 3- The lab has been set up under the Cyber and Information Security Division, Ministry of Defence.

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) 2 only

Que-5 Consider the following statements about 1st Incredible India International Cruise Conference

- 1- 1st Incredible India International Cruise Conference 2022 was held in Chennai.
- 2- India aims to increase cruise passenger traffic from 0.4 million at present to 4 million.
- 3- This has been jointly organized by the Ministry of Ports, Shipping & Waterways and FICCI.

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

Que-6 Which is/are true about SARAS Mark 2 aircraft, recently in News

- 1- It is developed by Bharat Electronics Limited (BEL) based in Bengaluru.
- 2- Indigenously built.
- 3- It's a 50 seat Light Transport aircraft.

Which of the following given above is/are correct

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

Que-7 With reference to Pullulan polymer, recently in News, consider the following statements

- 1- It is secreted by the bacteria *Aureobasidium pullulans*.
- 2- It is an exopolysaccharide.
- 3- It is exploited in food, cosmetics and pharmaceutical industry because of its non-toxic, non-mutagenic and non-immunogenic properties.

Which of the following given above is/are correct

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

Que-8 Consider the following statements about Sudden infant death syndrome (SIDS)

- 1- This is the unexplained death, usually during sleep, of a seemingly healthy baby less than a year old.
- 2- SIDS is sometimes known as crib death because the infants often die in their cribs.
- 3- Typically death occurs between the hours of midnight and 9:00 a.m.

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) 2 and 3 only

ANSWER

1- (b)

- Space debris can include natural space debris such as meteoroids, or man-made ones which can include defunct spacecrafts and satellites, stages of rockets which have launched payloads, dead satellites, satellite explosions and collisions.
- Chang Zheng 3B, commonly known as CZ 3B, is China's orbital launch vehicle, similar to India's GSLV or PSLV. 'Long March' rockets are a family of carrier rockets operated by the China National Space Administration, which carry the satellites or payloads. The 3B denotes the Long March 3B model in this family of rockets.

2- (c)

3- (a)

- It will offers a unified, integrated, centralised approach covering all states and UTs, and central government ministries.
- For players, it promises to reduce the days involved in getting stipulated permissions, lower costs, and facilitate ease of doing business.
- The Right of Way (RoW) rules on setting up of telecom towers and cable laying, offer a framework for

giving approvals, settling of disputes, and facilitates coordination between industry and various agencies.

- At present, the RoW rules are based on administrative process, and a strong legal backing is required to empower local officials, bring clarity on the fee structure, and fix accountability.

4- (a)

- The lab has been set up under the Cyber and Information Security Division, Ministry of Home Affairs (MHA).

5- (d)

- 1st Incredible India International Cruise Conference 2022 was held in Mumbai.
- Economic potential of Cruise tourism is expected to go up from USD 110 mn to USD 5.5 bn in the years to come.
- In order to boost cruise tourism industry in the country, Government of India has taken several initiatives including infrastructure upgradation, rationalisation of port fees, removing ousting charges, granting priority berthing to cruise ships, providing e-visa facilities etc.
- Strategies for developing India as a cruise hub, policy initiatives and port

infrastructure, potential of river cruise tourism, role of technology in the post-pandemic world are some of the key issues being deliberated at the two day event.

6- (b)

- It is developed by National Aerospace Laboratories, NAL based in Bengaluru.
- It's a 19 seat Light Transport aircraft.

7- (d)

- Scientists have developed a new biomaterial that can be used to disinfect wounds and hastens the process of healing. The biomaterial is derived from the polymer pullulan which is secreted by the fungus *Aureobasidium pullulans*. It is an exopolysaccharide, that is, this polymer is secreted by the fungus itself into the medium on which it is growing.
- Pullulan as a biomaterial is already successful and widely used commercially. It is exploited in food, cosmetics and pharmaceutical industry because of its non-toxic, non-mutagenic and non-immunogenic properties. Further, its ease of manufacture has also added to its appeal.
- Pullulan is basically a polymeric chain of glucose.

8- (c)

- There is usually no noise or evidence of struggle. SIDS remains the leading cause of infant mortality in Western countries, contributing to half of all post-neonatal deaths.
 - The most effective method of reducing the risk of SIDS is putting a child less than one year old on their back to sleep.
 - Although the cause is unknown, it appears that SIDS might be associated with defects in the portion of an infant's brain that controls breathing and arousal from sleep.
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