

**Que-1 What is the Jiribam-Imphal railway?**

1- It is considered a vital segment of the Trans-Asian Railway envisaged as an integrated freight railway network across Africa and Asia.

2- Tunnel number 12 on this line is India's longest railway tunnel at 11.55 km .

3- The rail bridges near Noney is being built at a pier height of 141 metres, the world's tallest.

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

**Que-2 With reference to National Internet Exchange of India (NIXI), consider the following statements**

1- It is a statutory body.

2- An objective of facilitating improved internet services in the country.

3- Also created INRegistry (.in domain) as its autonomous body for maintenance of .IN domain.

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 With reference to Red Pandas, consider the following statements**

1- A mammal.

2- Categorised as a vulnerable species as per IUCN Red List of Threatened Species.

3- Red pandas are shy, solitary and arboreal animals and considered an indicator species for ecological change.

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

**Que-4 What is PM Gati Shakti Master Plan?**

1- It aims to boost economic growth (Shakti) through infrastructure building.

2- It is considered to be the government's integrated approach to developing modern railways, roadways, waterways and airways.

3- Gati Shakti will create opportunities for new future economic zones and it aims to reduce the transportation time and improve Industrial productivity with the connectivity among roads.

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 With reference to Natural Farming, consider the following statements**

- 1- Natural Farming is a chemical-free alias traditional farming method.
- 2- It is considered as agroecology based diversified farming system which integrates crops, trees and livestock with functional biodiversity.
- 3- In India, Natural farming is promoted as Bharatiya Prakritik Krishi Paddhati Programme (BPKP) under centrally sponsored scheme- Paramparagat Krishi Vikas Yojana (PKVY).

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       |
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**Que-6 With reference to National Fish Farmer's Day, consider the following statements**

- 1- The National Fish Farmers day is observed every year on 12th July.
- 2- To demonstrate solidarity with all fisher folk, fish farmers and concerned stakeholders throughout the country.
- 3- The day is also celebrated as National Fisheries Development Board (NFDB) Foundation Day.

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 Oncolytic Virotherapy (OV), recently in News, consider the following statements**

- 1- It is among the most promising anti-cancer treatments in recent years, and has emerged at the top of the pack of immunotherapy.
- 2- Oncolytic bacteria can kill cancer cells while leaving nearby healthy cells and tissues intact.
- 3- In oncolytic virotherapy, the treatment also exerts its influence by activating an antitumor immune response made of immune cells such as natural killer (NK) cells.

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       |
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**Que-8 What is the aircraft carrier INS Vikrant?**

- 1- It is the first to be designed and constructed in India.
- 2- It is currently codenamed IAC-1 and will be called INS Vikrant once it enters service in the Indian Navy.
- 3- INS Vikrant was India's first aircraft carrier, which it acquired from the Russia in 1961.

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       |

**ANSWER**

- 1- (d)
  - It is considered a vital segment of the Trans-Asian Railway envisaged as an integrated freight railway network across Europe and Asia.
  - Sanctioned in February 2005 as a national project, the 110.625 km Jiribam-Imphal line is considered a vital segment of the Trans-Asian Railway envisaged as an integrated freight railway network across Europe and Asia.
  - The broad-gauge project entails connecting Manipur's Jiribam, a town

on the border with Assam, and State capital Imphal mostly across the fragile hills of Noney district, is expected to reduce the travel time from the existing 10-12 hours to three hours.

- The project involves 46 tunnels with a total length of 61.398 km, 16 road overbridges and under-bridges, and 140 major and minor rail bridges.
- Tunnel number 12 on this line is India's longest railway tunnel at 11.55 km and one of the rail bridges near Noney is being built at a pier height of 141 metres, the world's tallest.

2- (d)

- The National Internet Exchange of India (NIXI) is a non-profit Company incorporated under Section 25 of the India Companies Act, 1956 (now section 8 under Companies Act 2013).

3- (b)

- Categorized as an endangered species as per IUCN Red List of Threatened Species.
- A couple of recent publications by scientists of Zoological Survey of India (ZSI) have resolved the mystery around the demography and speciation in red panda. The studies have concluded that India is home to both the (sub) species — Himalayan

red panda (*Ailurus fulgens*) and the Chinese red panda (*Ailurus styani*) and the Siang river in Arunachal Pradesh splits the two phylogenetic species.

4- (c)

- Prime Minister Narendra Modi on August 15, 2021, announced the 'Pradhan Mantri Gati Shakti National Master Plan' worth Rs 100 trillion. Gati, the Hindi word for speed, aims to boost economic growth (Shakti) through infrastructure building.
- The holistic infrastructure development programme known as 'Gatishakti', plans to improve the productivity of industries and employment opportunities.
- This national master plan lays the foundation of the overall infrastructure in the country and provides an integrated and holistic path to the economy. The Rs 100 trillion project is aimed at easier inter-connectivity between road, rail, air and waterways to reduce travel time and enhance industrial productivity.
- India's production-linked incentive of the government is likely to generate demand for several other sectors, including cement, metal, and power, and more importantly, generate employment. It would also make manufacturing globally competitive.

5- (c)

- BPKP is aimed at promoting traditional indigenous practices which reduces externally purchased inputs. It is largely based on on-farm biomass recycling with major stress on biomass mulching, use of on-farm cow dung-urine formulations; periodic soil aeration and exclusion of all synthetic chemical inputs. According to HLPE Report, natural farming will reduce dependency on purchased inputs and will help to ease smallholder farmers from credits burden.

6- (d)

- The National Fish Farmers day is observed every year on 10th July.
- Taking into account the Centrally Sponsored Scheme "Blue Revolution" - Integrated Development and Management of Fisheries which was launched in 2016 had made vital contributions towards the development of the sector and during 2020, Hon'ble Prime Minister launched the "Pradhan Mantri Matsya Sampada Yojana (PMMSY) with a budget of over Rs. 20,050 crores for a period of five years. PMMSY aims to achieve fish production of 22 MMT from the current 13.76 MMT by 2024-25 and to create an additional employment opportunity to about 55 lakh people through this sector. Also

the scheme provides thrust for infusing new and emerging technologies in fisheries and aquaculture while creating a conducive environment for private sector participation, development of entrepreneurship, business models, promotion of ease of doing business, innovations and innovative project activities including start-ups, incubators etc.

- Meanwhile, the Fisheries and Aquaculture Infrastructure Development Fund (FIDF) scheme started in 2018-19 with a budget of Rs. 7,522.48 crores, which is also continuing presently. FIDF will specifically cater to creation of fisheries infrastructure facilities both in marine and inland fisheries sectors to augment the fish production to achieve the target. Projects under the FIDF is eligible for loan up to 80% of the estimated/actual project cost.

7- (b)

- Oncolytic viruses can kill cancer cells while leaving nearby healthy cells and tissues intact.
- The different approach consists of a new oncolytic virus called FusOn-H2, based on the Herpes simplex 2 virus, (HSV-2), commonly known as genital herpes.

- They arm the virus with a NK cell engager, resulting in what Zhang calls the "two birds with one stone strategy" to enhance therapeutic effect of the new oncolytic virus.
- This engager forms a bridge between NK cells and tumour cells, resulting in the killing of the engaged tumour cells.
- This armed FusOn-H2 will produce a three-pronged effect to enhance the antitumor efficacy against solid tumours in colon and lung cancer, which they expect to come in waves.

8- (a)

- An aircraft carrier is an airfield at sea – a warship with a long, flat deck for fighter jets to take off and land. Often it is the flagship that leads a battle group and is escorted by destroyers, frigates, and submarines to shield it from any attack.
- The Vikrant stretches 262 metres in length, exceeding that of two football fields and is 62 metre wide. Around 20 aircraft can be parked in the hangar.
- INS Vikrant was India's first aircraft carrier, which it acquired from the United Kingdom in 1961. It played a key role in the 1971 war with Pakistan which led to the creation of Bangladesh.

- The original Vikrant was deployed in the Bay of Bengal, and its two air squadrons of Sea Hawk fighter jets and Alize surveillance aircraft were used in strikes on ports, merchant ships, and other targets, and to prevent Pakistani forces from escaping through maritime routes
  - It was decommissioned in 1997. Now India's first homemade aircraft carrier will carry the name of her illustrious predecessor.
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