

Daily Current Affairs Prelims Quiz 18-05-2023 (Online Prelims Test)

1) Consider the following statements with respect to the Trimbakeshwar Temple:

- 1. It was constructed by third Peshwa Balaji Bajirao and consists one of the twelve Jyotirlingas.
- 2. It is located on the eastern banks of River Mahanadi, in the state of Odisha.
- 3. The temple is part of the UNESCO intangible heritage list.

Which of the above statement(s) is/are correct?

- a. 1 only
- b. 1 and 2 only
- c. 3 only
- d. 2 and 3 only

Answer : a

Trimbakeshwar Temple

- It is located in the state of Maharashtra. PARLIAMENT
- It is located near the mountain named Brahamagiri from which the river Godavari flows.

SHANKAR

- It was constructed by third Peshwa Balaji Bajirao (1740-1760) on the site of an old temple.
- Trimbakeshwar Temple is a religious centre having one of the twelve Jyotirlingas.
- It is not part of the UNESCO intangible heritage list.

2) The government has developed an AI & Facial Recognition powered Solution for Telecom SIM Subscriber Verification (ASTR), to bring down cyber frauds. Consider the following statements with respect to ASTR:

- 1. It is developed by the department of communications, Ministry of Science and Technology.
- 2. Telangana is using the ASTR feature to verify the beneficiaries of public distribution system (PDS).

Which of the above statement(s) is/are correct?

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

Answer : d

Artificial Intelligence and Facial Recognition powered Solution for Telecom SIM Subscriber Verification (ASTR)

• The Department of Telecommunications (DoT), the Ministry of Communications, has developed an artificial-intelligence-based facial recognition tool.

• The tool has the capability of running checks on subscriber databases of telecom operators to deduce whether it contains multiple connections associated with the same person.

Working of ASTR

- Human face images are encoded using convolutional neural network (CNN) models in order to account for the tilt and angle of the face, opaqueness and dark colour of the images.
- After that, a face comparison is carried out for each face against all faces in the database, and similar faces are grouped under one directory.
- Two faces are concluded to be identical by ASTR if they match to the extent of at least 97.5%.
- ASTR is capable of detecting all SIMs against a suspected face in less than 10 seconds from a database of 1 crore images.
- The DoT allows an individual to take nine legitimate mobile phone connections using a single identity proof.
- In essence, what the ASTR does is:
 - 1. It looks up if there are more than nine connections against a single individual's photograph;
 - 2. It runs a search through the database to see if the same person has taken SIMs under different names.
- 3) Consider the following statements with respect to the Rasht-Astara Railway Project:
 - 1. It is part of the International North-South Transport Corridor (INSTC).
 - 2. The project passes through India, Iran, Azerbaijan, and Russia.
 - 3. The project connects the Baltic Sea, Caspian Sea, Indian Ocean and the Black Sea.

Which of the above statement(s) is/are incorrect?

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

Answer : c

Rasht-Astara Railway Project

- Russia and Iran sign deal for railway corridor intended to rival Suez Canal.
- Rasht-Astara railway is seen as an important link in the corridor, meant to connect India, Iran, Russia, Azerbaijan and other countries via railways and sea.
- The project is part of the International North-South Transport Corridor (INSTC).
- The 162km railway along the Caspian Sea coast would help to connect Russian ports on the Baltic Sea with Iranian ports in the Indian Ocean and the Gulf.



INTERNATIONAL NORTH-SOUTH TRANSPORT CORRIDOR



4) Consider the following statements with respect to London Interbank Offered Rate (LIBOR):

- 1. It is a global interest rate at which major global banks lend to one another in the international interbank market for short-term loans.
- 2. The interest rate is calculated only for currencies such as the Euro, US dollars, Swiss Franc, Japanese Yen and UK Pound Sterling.
- 3. India has its own benchmark interest rate called the Secured Overnight Financing Rate (SOFR).

Which of the above statement(s) is/are correct?

a. 1 and 3 only

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- b. 1 and 2 only
- c. 2 and 3 only
- d. 1, 2 and 3

Answer: b

London Interbank Offered Rate (LIBOR)

- LIBOR is a global benchmark interest rate that combines individual rates at which banks opine they may borrow from each other at the London interbank market.
- In other words, it is the benchmark interest rate at which major global banks lend to one another in the international interbank market for short-term loans.
- It is used as a benchmark to settle trades in futures, options, swaps and other derivative financial instruments in over-the-counter markets and on exchanges globally.
- Further, consumer lending products including mortgages, credit cards and student loans, among others, too use it as a benchmark rate.
- LIBOR is calculated for five currencies such as the U.S. dollar, Euro, Pound, Swiss Franc and Japanese Yen.
- The Secured Overnight Financing Rate (SOFR) is a benchmark interest rate for dollardenominated derivatives and loans that will replace LIBOR.

5) Consider the following statements:

1. Dengue is transmitted by the Aedes mosquito species, which is also responsible for the spread of Chikungunya and Zika virus.

- 2. India has its indigenous recombinant type of vaccine for dengue.
- 3. The recombinant vaccine is similar to Covaxin, which uses the non-structural proteins of the dengue virus.

Which of the above statement(s) is/are **incorrect**?

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

Answer: c

Dengue

- Dengue is transmitted to humans by the Aedes mosquito species, Ae. Aegypti or Ae. Albopictus, which also spreads Chikungunya and Zika virus.
- India does not have an indigenous vaccine for dengue.
- There are four serotypes (or types) of the dengue virus, DEN-1, DEN-2, DEN-3 and DEN-4, each virus interacting differently with antibodies in the human body.
- Each serotype is capable of manifesting into dengue fever, dengue haemorrhagic fever and dengue shock syndrome.
- Five types of dengue vaccines are currently being investigated:
- 1. Live attenuated vaccine (which uses the weakened or attenuated form of the virus, such as the measles or chickenpox vaccine);
- 2. Inactivated vaccine (using the dead virus, used for Hepatitis A and rabies),
- 3. Recombinant subunit vaccine (as in COVISHIELD, where non-structural proteins of the dengue virus are used, aiding a balanced immune response),
- 4. Viral vectored vaccine (such as the vaccine against Ebola)
- 5. DNA vaccine (for HIV, malaria, TB)