

Q: Consider the following statement regarding Crime in India 2021 report released by the National Crime Records Bureau (NCRB):

1. Highest number of rapes against women is reported from Rajasthan.
2. Maharashtra, Manipur, Mizoram, Nagaland, and Sikkim reported 100 per cent of the women raped knew their rapists beforehand.
3. Haryana reported the maximum cases of child rape.

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:

- A total of 65,025 such cases were reported in 2021. 96.8 per cent of the victims knew the rapist beforehand.
- In Rajasthan, which reported the highest number of rapes against women, 95.8 per cent of victims knew the offender.
- In child rape cases, Madhya Pradesh reported the maximum cases, 99.1 per cent of the victims knew the offenders.
- In five states, 100 per cent of the women raped knew their rapists beforehand. These are Maharashtra, Manipur, Mizoram, Nagaland, and Sikkim.
- In six states, namely, Andhra Pradesh, Chhattisgarh, Kerala, Odisha, Punjab, and Telangana, over 99 per cent of the victims knew the offenders.
- The highest number of rapes against women were reported by "Family friends/ Neighbours/ Employer or Other Known Persons".

Q: Zaporizhzhia nuclear power plant (NPP) is located on the banks of which among the following river?

- a) Dniester
- b) Dnieper
- c) Siversky Donets
- d) Irtysk

Ans: b

Explanation:

- Inspectors of the International Atomic Energy Agency (IAEA) are assessing the safety situation at the Zaporizhzhia nuclear power plant (NPP) on the banks of the Dnieper River near the Ukrainian town of Enerhodar.
- The IAEA mission will now maintain a permanent presence at the plant with two of its inspectors staying back.

Q: Consider the following statement regarding International Atomic Energy Agency (IAEA):

1. Its creation was inspired by the "Atoms for Peace" speech made by former U.S. President Dwight Eisenhower.
2. Its headquarter is in Brussel.
3. It is an autonomous intergovernmental body to promote safe, secure and peaceful nuclear technologies.

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: c

Explanation:

- The IAEA is an autonomous intergovernmental body to promote safe, secure and peaceful nuclear technologies and has a relationship agreement with the United Nations.
- It was born on July 29, 1957, after the IAEA statute was approved by 81 countries in late 1956, at the height of the Cold War between the United States and the Soviet Union.
- Its creation was inspired by the “Atoms for Peace” speech made by former U.S. President Dwight Eisenhower at the U.N. General Assembly in 1953 when he envisioned an organisation to promote peaceful and unifying uses of nuclear energy. The IAEA is entrusted with the task of upholding the principles of the Nuclear Non-Proliferation Treaty (NPT) of 1970.
- The IAEA and its former Director General Mohamed ElBaradei were awarded the Nobel Peace Prize in 2005 for the agency’s work of “incalculable importance”, at a time when disarmament efforts appeared “deadlocked” and when there was a danger that nuclear arms would “spread both to states and to terrorist groups”.
- The Vienna-headquartered agency currently has 175 member states and functions through two policy-making organs- the Board of Governors and the General Conference.

Q: Consider the following statement regarding standalone and no standalone architecture for 5G:

1. In no standalone, RAN and the core are completely new.
2. In standalone, the operator can use their existing installed capacities.

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: d

Explanation:

- A 5G-based connected future is upon us. That means deploying services in a world filled with 4G compatible devices.
- So, telecom operators have two options. They can either build a non-standalone (NSA) or a standalone architecture.
- In an NSA framework, the operator can use their existing installed capacities and LTE architecture to deploy 5G services while implementing a new radio access network (RAN).
- The SA model, on the contrary, is a pureplay 5G architecture that provides operators full range of the fifth-generation capability and lets them slice the network. In this architecture, RAN and the core are completely new.

Q: Consider the following statement:

1. Bangladesh is India’s sixth largest trade partner.
2. India and Bangladesh had signed Comprehensive Economic Partnership Agreement (CEPA) in 2019.

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: a

Explanation:

- Bangladesh’s Prime Minister Sheikh Hasina will be visiting India from September 5 to 8, 2022.
- Trade will be a focal point during her visit as the two countries gear up to sign a Comprehensive Economic Partnership Agreement (CEPA). The two Prime Ministers are also expected to inaugurate a joint venture power plant soon.
- CEPA comes at a time when Bangladesh is set to lose the duty-free and quota-free market-access facility to India after 2026 when it graduates to a developing country.

- Bangladesh is India's sixth largest trade partner with bilateral trade rising from \$2.4 billion in 2009 to \$10.8 billion in 2020-21.