

October 23, 2018

Q.1) Consider the following statements with respect to 'Fusion Energy Conference (FEC 2018)'

1. It is organised by the International Atomic Energy Agency (IAEA)
2. It is hosted by the Department of Atomic Energy in Gandhinagar

Select the correct statements

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

Q.1) Solution (c)

The six-day event is organised by the International Atomic Energy Agency (IAEA) and hosted by the Department of Atomic Energy and Gandhinagar-based Institute of Plasma Research.

The 27th IAEA Fusion Energy Conference (FEC 2018) aims to provide a forum for the discussion of key physics and technology issues as well as innovative concepts of direct relevance to the use of nuclear fusion as a source of energy.

Among the participants are international bodies like the ITER Organisation and the European Atomic Energy Community (Euratom).

Source: https://www.business-standard.com/article/pti-stories/27th-fusion-energy-conference-begins-in-gandhinagar-on-oct-22-118102100531_1.html

Q.2) 'World Development Report (WDR)' is published by

- a) World Bank
- b) World Economic Forum
- c) World Trade Organization
- d) International Monetary Fund

Q.2) Solution (a)

The World Development Report (WDR) is an annual report published since 1978 by the International Bank for Reconstruction and Development (IBRD) or World Bank. Each WDR provides in-depth analysis of a specific aspect of economic development.

October 23, 2018

The World Development Report 2019 studies the impact of technology on the nature of work.

Source: <https://indianexpress.com/article/opinion/columns/chidambaram-congress-bjp-pollution-we-have-failed-our-children-water-scarcity-5410846/>

Q.3) Consider the following statements with respect to 'Toluene'

1. It is one of the petrochemical wastes
2. It has genotoxic and carcinogenic effects on human beings
3. It is used as a jet fuel surrogate blend

Select the correct statements

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) All of the above

Q.3) Solution (d)

Toluene is one of the petrochemical wastes that get released without treatment from industries such as refineries, paint, textile, paper and rubber. Toluene has been reported to cause serious health problems to aquatic life, and studies point that it has genotoxic and carcinogenic effects on human beings.

Toluene is one of a group of fuels that have included in jet fuel surrogate blends. Toluene is used as a jet fuel surrogate for its content of aromatic compounds.

Source: <https://www.thehindu.com/sci-tech/science/bacteria-to-degrade-toluene/article25272923.ece>

Q.4) India's longest river bridge will be built across the Brahmaputra. It will connect which of the following states?

- a) Assam and Meghalaya
- b) Assam and Arunachal Pradesh
- c) Nagaland and Manipur
- d) Tripura and Mizoram

October 23, 2018

Q.4) Solution (a)

India's longest river bridge will be built across the Brahmaputra, connecting Dhubri in Assam to Phulbari in Meghalaya, and will cut road travel by 203km as also travel time.

The new bridge will complete the missing link of NH127B from Assam to Meghalaya. Currently, small boats run between Dhubri and Phulbari.

Source: <https://timesofindia.indiatimes.com/india/20km-assam-bridge-to-cut-travel-by-200km/articleshow/66288987.cms>

Q.5) The distribution of powers between the centre and the states in the Indian Constitution is based on the scheme provided in the

- a) Morley Minto Reforms, 1909
- b) Indian Independence Act 1947
- c) Montague Chelmsford Act, 1919
- d) Government of India Act, 1935

Q.5) Solution (d)

The Act divided the powers between the Centre and units in terms of three lists—Federal List (for Centre, with 59 items), Provincial List (for provinces, with 54 items) and the Concurrent List (for both, with 36 items).

