

Q: Consider the following statement regarding Food Safety Index:

1. It is an annual assessment released by the Food Safety and Standards Authority of India (FSSAI).
2. This index is based on the performance on five significant parameters.
3. Among the large State category, Tamil Nadu tops the list.

Choose the correct option from codes given below:

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

Ans: a

Explanation:

- Food Safety Index is an annual assessment released by the Food Safety and Standards Authority of India (FSSAI).
- It was started in 2018-19 and serves as a tool to propel States and Union Territories to enhance their performance and establish robust food safety ecosystems within their jurisdictions
- This index is based on the performance of the State/ UT on five significant parameters, namely, Human Resources and Institutional Data, Compliance, Food Testing – Infrastructure and Surveillance, Training & Capacity Building and Consumer Empowerment.
- The Index is a dynamic quantitative and qualitative benchmarking model that provides an objective framework for evaluating food safety across all States/UTs.
- Ranking of the States and Union Territories in the 2022 -23 Report
 - ❖ Among the large state category: Kerala is the top-ranking state followed by Punjab and Tamil Nadu.
 - ❖ Among the small states category: Goa is the top-ranking state followed by Manipur, and Sikkim in the Small States category.
 - ❖ Among the Union Territories category: Jammu and Kashmir, Chandigarh, and Delhi

Q: Consider the following statement regarding Kakhovka Dam:

1. It is located on the Dniester River.
2. It was built as part of the Kakhovka hydroelectric power plant.
3. The reservoir also supplies water to the Zaporizhzhia nuclear plant.

Choose the correct option from codes given below:

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

Ans: b

Explanation:

- Kakhovka Dam is located on the Dnieper or Dnipro River in southern Ukraine which was built as part of the Kakhovka hydroelectric power plant.
- The reservoir also supplies water to the Crimean Peninsula and the Zaporizhzhia nuclear plant
- Zaporizhzhia nuclear plant is Europe's largest and gets its cooling water from the reservoir which is located on the southern side, now under Russian control.
- It holds water a volume about equal to the Great Salt Lake in the U.S.

Q: Consider the following statement regarding Kilauea Volcano:

1. It is the youngest and most active Hawaiian shield volcano.
2. Kilauea has a large summit caldera with a central crater.

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: c

Explanation:

- Kilauea Volcano is the youngest and most active Hawaiian shield volcano, located on the southern part of the Island of Hawai'i, known as Big Island.
- It is near-constantly erupting from vents either on its summit (caldera) or on the rift zones.

- Kilauea has a large summit caldera with a central crater, Halemaumau, which is according to Hawaiian legends the home of the fire goddess Pele.
- Until 1924, it contained a lava lake.

Q: Consider the following statement regarding Mission on Advanced and High-Impact Research (MAHIR):

1. The mission aims to quickly identify emerging technologies in the power sector.
2. It will be chaired by the Union Minister for Power & New and Renewable Energy.
3. It is alternatives to Lithium-Ion storage batteries.

Choose the correct option from codes given below:

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

Ans: d

Explanation:

- Mission on Advanced and High-Impact Research (MAHIR) mission aims to quickly identify emerging technologies in the power sector and develop them indigenously, at scale, for deployment within and outside India.
- The Mission will be funded by pooling financial resources of the Ministry of Power, Ministry of New and Renewable Energy and the Central Public Sector Enterprises under the two Ministries.
- Additional funding will be mobilized from the Government of India's budgetary resources.
- It will be chaired by the Union Minister for Power & New and Renewable Energy.
- Alternatives to Lithium-Ion storage batteries, modifying electric cookers/pans to suit Indian cooking methods, green hydrogen for mobility (High-Efficiency Fuel Cell), Carbon capture etc.

Q: Consider the following statement regarding Dnieper River:

1. It is the fourth longest river in Europe.
2. It runs from the uplands of Russia's Valdai Hills.
3. It does not flow through Belarus.

Choose the correct option from codes given below:

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

Ans: a

Explanation:

- Dnieper is the fourth longest river in Europe.
- It runs a total length of 1,368 miles extending from the uplands of Russia's Valdai Hills.
- It flows in a southerly direction through western Russia, Belarus, and Ukraine before emptying into the Black Sea.