

Daily Current Affairs Prelims Quiz 21-01-2023 (Online Prelims Test)

- 1) Consider the following statements with respect to Plateaus:
 - 1. A plateau that is eroded and broken into smaller raised sections are called outliers.
 - 2. Crustal shortening plateau formation process is the thrusting of one block of crust over another by the folding of layers of rock.
 - 3. Deccan Plateau in India is formed by the crustal shortening plateau formation process.

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

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

Answer: a

Plateau



- A plateau is a flat-topped table land.
- Plateaus occur in every continent and take up a third of the Earths land.
- They are one of the four major landforms, along with mountains, plains, and hills.
- Plateaus, like mountains may be young or old.
- The Deccan plateau in India is one of the oldest plateaus.

Plateau Formation

- **Thermal Expansion** Thermal expansion of the lithosphere means the replacement of cold mantle lithosphere by hot asthenosphere.
- Examples: The Yellowstone Plateau in the United States, the Massif Central in France, and the Ethiopian Plateau in Africa.
- **Crustal Shortening** Crustal shortening is the process of plateau formation by the thrusting of one block or slice of crust over another or by the folding of layers of rock.
- Examples: They can be found in North Africa, Turkey, Iran, and Tibet, where the African, Arabian, and Indian continental masses have collided with the Eurasian continent.
- Volcanic Flood Basalts Traps Volcanic plateaus are commonly associated with eruptions that occurred during the Cenozoic or Mesozoic.
- Examples: Columbia Plateau in the north western United States, Deccan Traps of peninsular India, Laurentian Plateau or The Canadian Shield and the Siberian Traps of Russia.
- 2) Consider the following statements with respect to the International North-South Transport Corridor (INSTC):
 - 1. It is a transportation route linking the Indian Ocean and the Persian Gulf to the Caspian Sea.
 - 2. India is not a party to the International North-South Transport Corridor (INSTC).

3. At present, the Chabahar Port in Iran is part of the Corridor.

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

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

Answer: b

International North-South Transport Corridor (INSTC)

- Ministry of Ports, Shipping and Waterways, in association with India Ports Global Ltd, conducted a workshop on the Linking Chabahar Port with INSTC.
- The International North-South Transport Corridor (INSTC) is a multi-modal transportation route linking the Indian Ocean and the Persian Gulf to the Caspian Sea via Iran and onward to northern Europe via St. Petersburg in Russia.
- Countries associated with this Initiative: Armenia, Azerbaijan, Belarus, Bulgaria, India, Iran, Kazakhstan, Kyrgyz Republic, Oman, Russian Federation, Syrian Arab Republic, Tajikistan, Turkey, and Ukraine.
- The corridor encompasses sea, road and rail routes.
- The main purpose of the corridor was to reduce carriage costs and transit time between India and Russia.
- The transit time is expected to reduce to almost half, once the corridor becomes fully functional.
- Route with countries in INSTC India, Iran, Azerbaijan, and Russia (Source and destination included).

Chabahar Port

Information is Empowering

- It is located off the Gulf of Oman & is the only Iranian port with direct access to the ocean.
- The Port's deep draft of 16 m is suitable for handling large shipment vessels.
- The Port lies close to some of the busiest trade routes in the world.
- The region comes under the Asia-Europe, Asia-Asia trade route, which carries large cargo volumes.



- 3) Consider the following statements:
 - 1. A pangenome is the full range of messenger RNA (mRNA) molecules expressed by an organism.

- 2. A transcriptome is the entire set of genes from all strains within a group of organism.
- 3. A pantranscriptome is a combination of both transcriptome and pangenome.

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

- a. 1 only
- b. 2 only
- c. 3 only
- d. None of the above

Answer: c

Pantranscriptome

- The pantranscriptome-concept builds on the emerging concept of pangenomics in the genomics field.
- Pantranscriptome, which combines a transcriptome and a pangenome, a reference that
 contains genetic material from a cohort of diverse individuals, rather than just a single linear
 strand.
 - Cohort a group of people with a shared characteristic.
- A transcriptome is the full range of messenger RNA, or mRNA, molecules expressed by an organism.
- The term transcriptome can also be used to describe the array of mRNA transcripts produced in a particular cell or tissue type.
- In the fields of molecular biology and genetics, a pan-genome (pangenome or supragenome) is the entire set of genes from all strains within a clade.
 - Clade a group of organisms believed to comprise all the evolutionary descendants of a common ancestor.
- More generally, it is the union of all the genomes of a clade.
- 4) Trademark can be issued for which of the following?
 - 1. Symbol
 - 2. Design
 - 3. Word
 - 4. Phrase

Choose the correct code.

- a. 1 and 2 only
- b. 1, 3 and 4 only
- c. 2, 3 and 4 only
- d. 1, 2, 3 and 4

Answer: d

Trademark

- A trademark is a symbol, design, word or phrase that is identified with a business.
- When a trademark is registered, its owner can claim exclusive rights on its use.
- The Trademark Act, 1999, governs the regime on trademark and its registration.
- The Act guarantees protection for a trademark that is registered with the Controller General of Patents, Designs, and Trademarks, also known as the trademark registry.
- A trademark is valid for 10 years, and can be renewed by the owner indefinitely every 10 years.

Violation of trademark

- Using a registered trademark without authorisation of the entity that owns the trademark is a violation or infringement of the trademark.
- Using a substantially similar mark for similar goods or services could also amount to infringement.
- In such cases, courts have to determine whether this can cause confusion for consumers between the two.
- There are several ways in which a trademark can be infringed.
- However, the trademark owner has to show that the trademark has a distinct character.
- 5) Consider the following statements with respect to the Bhoj Wetland:
 - 1. It is located in the State of Bihar on the banks of River Koshi.
 - 2. The Chitrangudi bird sanctuary is located in this wetland.
 - 3. It is part of the Ramsar wetland site of international importance.

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

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

Answer: c

Bhoj Wetland



- It is located in Bhopal, in the state of Madhya Pradesh.
- It has two lakes, Upper Lake, also called Bhojtal and Lower Lake or Chhota Talaab.
- It is also part of the Ramsar site of international importance.
- Small cruise vessels with passengers act as floating colonies that pollute water bodies with sewage, wastewater and other contaminants.
- The National Green Tribunal has directed the Central Pollution Control Board (CPCB) and Madhya Pradesh Pollution Control Board (MPPCB) to periodically monitor the activities of a cruise vessel polluting the Bhoj wetland.