



Daily Current Affairs Prelims Quiz 08-07-2024 (Online Prelims Test)

1) Consider the following statements with respect to Genome editing

1. Genome editing is a method for making specific changes to the Deoxyribonucleic acid (DNA) of a cell or organism.
2. It can be used to add, remove or alter DNA in the genome.

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

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

Answer : c

Genome editing

The Kerala University of Fisheries and Ocean Studies (Kufos) is set to launch a genome editing mission.

- **About** - Genome editing is a method for making specific changes to the **Deoxyribonucleic acid (DNA) of a cell or organism**.
- It can be used to **add, remove or alter** DNA in the genome.
- Human genome editing technologies can be used on **somatic cells, germline cells and germline cells**.
- **Usage of Genome editing**
 - **Research**- Genome editing can be used to change the DNA in cells or organisms to understand their biology and how they work.
 - **Disease treatment**- Genome editing has been used to modify human blood cells that can be put back into the body to treat conditions including blood cancers and AIDS.
 - **Biotechnology**- Genome editing has been used to modify agricultural crops to improve their yields and resistance to disease and drought.

2) Consider the following statements with respect to Internet archive

1. It is a non-profit digital library which offers paid access to digitized collections like websites, software, music, videos, and books.
2. It is an initiative of World Bank.

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

- a. 1 only
- b. 2 only
- c. Both 1 and 2

d. Neither 1 nor 2

Answer : d

Internet Archive

The Internet Archive is facing a legal battle with traditional publishers over alleged copyright violations.

- **About-** It is an American **nonprofit digital library** which offers free access to digitized collections like websites, software, music, videos, and books.
- **Foundation-** 1996
- **Founder-** Brewster Kahle
- **Headquarters-** San Francisco, California, U.S.
- **Open Access-** It operates under **principles of open access** and aims to provide digital materials for educational and research purposes.
- Much of the content on the Internet Archive is **freely accessible to the public**.

3) Consider the following statements with respect to Right to Repair Portal

1. The portal aims to combat e-waste by providing repair information across various sectors.
2. It is an initiative of Ministry of commerce and Industry.
3. Under this framework, it would be mandatory for manufacturers to share their product details with customers.

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

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



Answer : c

Right to Repair Portal

The Union government recently collaborated with automobile associations and partner companies to onboard them onto the Right to Repair Portal in India.

- The Right to Repair Portal India aims to empower consumers by
 - Providing easy access to repair information,
 - Promoting reuse,
 - Contributing to the circular economy, and
 - Reducing e-waste efficiently.
- **Nodal office-** Department of Consumer Affairs.
- **Nodal Ministry-** Ministry of Consumer Affairs, Food and Public Distribution.
- **Aim-** To uphold **consumer rights** and respond to evolving concerns regarding **hassle free product repairs**.
- Under this framework, it would be mandatory for manufacturers to share their product details with customers so that they can either repair them by self or by third parties, rather than only depending on original manufacturers.

4) It is a nocturnal animal native to sub Saharan Africa closely related to cats which are known for its kleptoparasitic preying behaviour, seen recently in news is related to which of the following species?

- a. Jungle cat
- b. Spotted Hyenas
- c. African cheetah
- d. Hog deer

Answer : b

Spotted hyenas (*Crocuta crocuta*)

A Danish study finds that spotted hyenas, aided by humans, are outcompeting leopards in a Tanzanian protected area.

- The spotted hyena also known as the **laughing hyena**.
- Hyenas are **nocturnal**.
- **Appearance** - The spotted hyena's **rounded ears** help distinguish it from the striped and brown hyena.
- Although their behavior and appearance are like dogs, hyenas are more **closely related to cats**.
- **Distribution** - Hyena fossils have been found in North America, Europe, Asia, and Africa but they are native to **sub-Saharan Africa** at present.
- **Social behaviour** - Spotted hyenas live in groups known as 'clans' or 'cackles.'
- They are also '**kleptoparasitic**', in that they steal kills from other predators, including leopards.
- **Diet** - The spotted hyena is the most **carnivorous** member of the Hyaenidae.
- **Breeding** - The spotted hyena is a **non-seasonal breeder**, though a birth peak does occur during the wet season.
- **Conservation status**
 - **IUCN** - It is listed as being of **least concern** by the IUCN.

5) Which of the following countries bordered by Iran?

1. Iraq
2. Armenia
3. Syria
4. Turkmenistan
5. Pakistan
6. Uzbekistan

Choose the correct code.

- a. 1, 2, 3 and 5 only
- b. 1, 2, 4 and 5 only
- c. 1, 2, and 4 only
- d. 1, 2, 3, 4, 5 and 6

Answer : b

Iran

- Iran formerly known as Persia, is a mountainous in Western Asia.
- **Important mountains** - Elburz and the Zagros Mountains.
- Iran's highest point is Mt. Damavand reaches.
- The most significant river is the **Karun**.
- **Lake Urmia** is the country's largest body of water.

- Iran is situated both in the Northern and Eastern hemispheres of the Earth.
- **Bordered by** - Iran is bordered by
 - Armenia and Azerbaijan in the northwest
 - Turkmenistan in the northeast
 - Afghanistan and Pakistan in the east
 - Iraq and Turkey in the west.
 - Iran is bounded by the Caspian Sea in the north, and by
 - Persian Gulf and Gulf of Oman in the south.

