



Daily Current Affairs Prelims Quiz 01-10-2024 (Online Prelims Test)

1) Consider the following statements with respect to Anna Darpan

1. It is a micro-services-based integrated supply chain management system that aims to streamline and enhance the entire supply chain operations and services.
2. Under the scheme, depot online system has been recently launched by the Food Corporation of India (FCI).
3. FCI shall be responsible for the end-to-end design, development, implementation and maintenance of the ANNA DARPAN system.

How many of the statements given above are correct?

- a. Only one
- b. Only two
- c. All three
- d. None of the above

Answer : b



Anna Darpan

- Anna Darpan is a digital transformation initiative of the existing supply chain management system by the Food Corporation of India (FCI).
- **Objective** - To replace the existing 'Depot Online System' with a new, micro-services-based integrated supply chain management system.
- **Scope** - Design, development, implementation, and maintenance of the entire system.
- **Coforge Limited** - Shall be responsible for the end-to-end design, development, implementation and maintenance of the ANNA DARPAN system. (**Statement 3 is incorrect**)
- **Additional Features** - Centralized analytics platform for data-driven decision making.
- The main objectives of ANNA DARPAN include:
 - Improving efficiency and productivity
 - Creating an interactive and user-friendly UI
 - Enabling data-driven decision making
 - Integrating with internal and external systems
 - Merging existing internal systems
 - Adopting a mobile-first approach

2) Consider the following statements with respect to Bharat-Gen

1. It is an open-source platform and development of an ecosystem of generative AI research in the country.
2. It will cater both text and speech, ensuring coverage across India's diverse linguistic landscape.

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

- a. 1 only

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

Answer : c

Bharat-Gen

- Bharat-Gen is India's first government-funded Multimodal Large Language Model initiative.
- It was launched recently (September, 2024).
- **Key Features of Bharat-Gen** - It Focus on creating efficient and inclusive AI in Indian languages.
- Aims to generate high-quality text and multimodal content in various Indian languages.
- Prioritizes India's socio-cultural and linguistic diversity.
- Aligns with the goal of making AI accessible to all citizens.
- Emphasizes data sovereignty and India-centric datasets.
- **IIT Bombay** - It is spearheaded by IIT Bombay under the *National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS)*.
- Consortium includes IIT Bombay, IIIT Hyderabad, IIT Mandi, IIT Kanpur, IIT Hyderabad, IIM Indore, and IIT Madras
- **Atmanirbhar Bharat** - The initiative aligns with India's vision of Atmanirbhar Bharat (self-reliant India) and aims to position the country as a global leader in Generative AI.
- **Focus on Indian languages** - It's particularly noteworthy for its focus on Indian languages and cultural contexts, which are often underrepresented in global AI models.

3) Operation Chakra, sometimes seen in the news recently, is associated with?

- a. Operation by the Indian Navy to rescue Indian residents trapped by Cyclone.
- b. A multi-city operation to dismantle global cybercrime network.
- c. A humanitarian effort sought to send Bangladeshi migrant Muslims from Rohingya.
- d. Operation by forest department to resolve animal human conflict.

Answer : b

Operation Chakra-III

- Operation Chakra-III is a crackdown on a major technology enabled crime network at 32 locations.
- It is a multi-city operation to dismantle global cybercrime network.
- It is an operation by **the Central Bureau of Investigation (CBI)**.
- CBI has recently arrested 26 accused persons from Pune, Hyderabad and Visakhapatnam.
- The probe into the cybercrime network is being conducted in close coordination with the United States' Homeland Security Investigations and other foreign law enforcement agencies.
- The CBI's International Operations Division registered a First Information Report (FIR) recently, as part of the ongoing Operation Chakra-III.

4) Consider the following statements with respect to Solar Eclipse

1. A solar eclipse is witnessed only during the new moon.
2. A partial solar eclipse is the most common type of solar eclipse.
3. A hybrid solar eclipse can be witnessed when an eclipse shifts between annular and total solar eclipse.

How many of the statements given above are correct?

- a. Only one

- b. Only two
- c. All three
- d. None of the above

Answer : c

Solar Eclipse

An annular solar eclipse will be visible in parts of South America on October 2, 2024.

- A solar eclipse takes place when the Moon moves passes and positions itself in the middle of the Earth and the Sun.
- The Moon blocks the light of the Sun, either fully or partially, which casts a huge shadow on some parts of the world.
- There are 4 different types of solar eclipses which are:
 1. Total solar eclipse
 2. Annular solar eclipse
 3. Partial solar eclipse
 4. Hybrid solar eclipse
- **Total solar eclipse** - When the Moon blocks the Sun entirely, the areas in the centre of the Moon's shadow at the time witness a total solar eclipse.
- The sky darkens and people who are in the path of a total solar eclipse can get a glimpse of the Sun's corona, the outer atmosphere which is usually not visible due to the bright face of the Sun.
- **Annular solar eclipse** - It occurs when the Moon passes in front of the Sun but is at or near the farthest point from Earth.
- In this scenario, the Moon covers the Sun in such a way that only the periphery of the Sun remains visible, looking like a ring of fire.
- **Partial solar eclipse** - A partial solar eclipse takes place when the Moon blocks just a part of the Sun, giving it a crescent shape.
- **Hybrid solar eclipse** — is the rarest type of solar eclipse and is witnessed when an eclipse shifts between annular and total as the shadow of the Moon moves across the globe.
- In this case, some parts of the world see a total solar eclipse, while others observe an annular solar eclipse.
- **Features of solar eclipse** - During both partial and annular eclipses, the regions outside the area covered by the Moon's umbra.
- Moon's umbra is the middle and the darkest part of the lunar shadow will see a partial solar eclipse.
- Partial solar eclipse is the most common type of solar eclipse.
- **Frequency of the solar eclipse** - A solar eclipse is witnessed only during the new moon that is when the Moon and Sun are aligned on the same side of Earth.
- A new moon occurs about 29.5 days because that is how long it takes the Moon to orbit Earth.
- *It takes place only between two to five times annually.*



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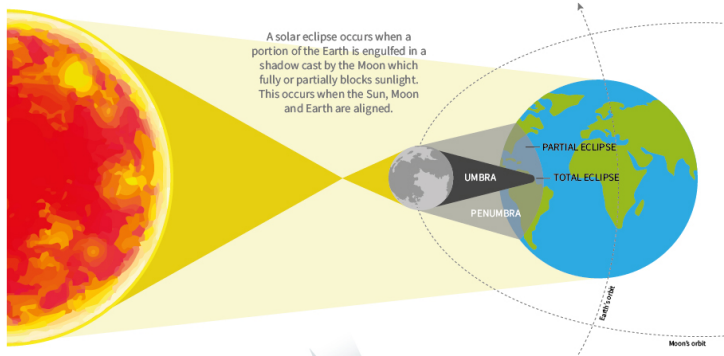


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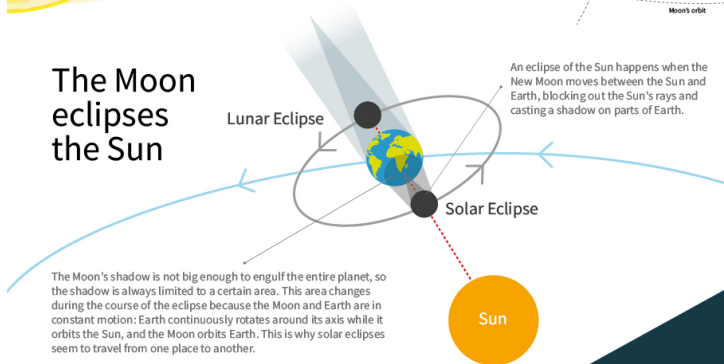


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What is a solar eclipse?

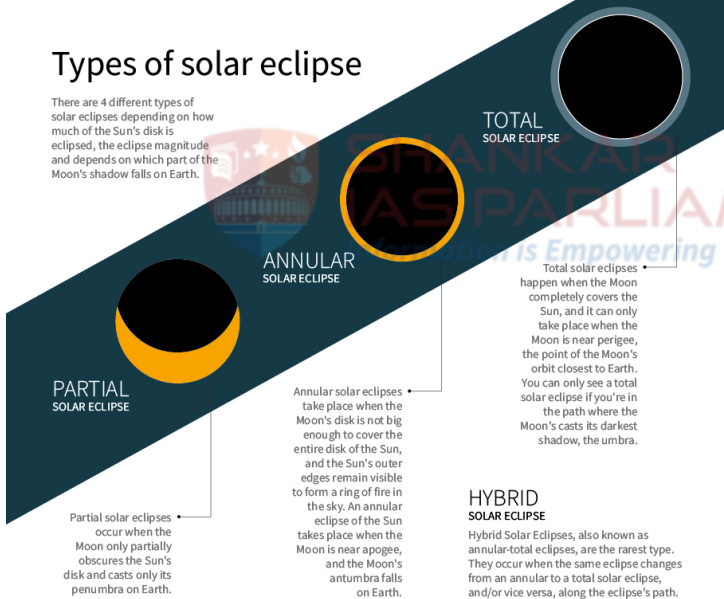


The Moon eclipses the Sun

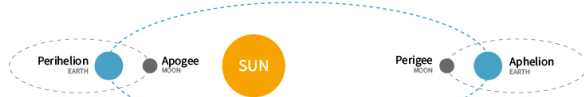


Types of solar eclipse

There are 4 different types of solar eclipses depending on how much of the Sun's disk is eclipsed, the eclipse magnitude and depends on which part of the Moon's shadow falls on Earth.



INFOGRAPHIC: ANDRAPS/ISTOCKPHOTO

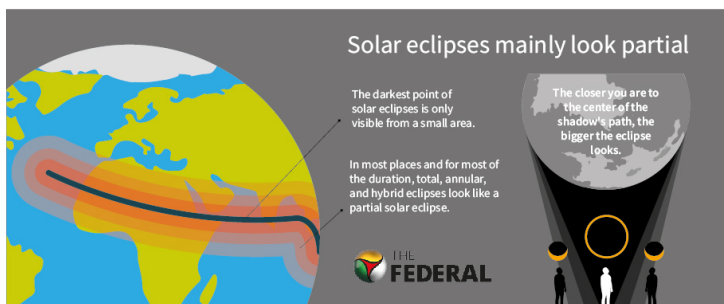


The longest lasting annular eclipses happen when the moon is near apogee (its farthest point from Earth in its monthly orbit) and the Earth is near perihelion (closest point to the sun).

Longest eclipse

The longest lasting total solar eclipses happen when the moon is near perigee (closest point to Earth in its monthly orbit) and the Earth is near aphelion (farthest point from the sun).

Solar eclipses mainly look partial



5) Consider the following pairs:

<i>Terms in News</i>		<i>Countries</i>
1. El Laco	-	Chile
2. Kiruna	-	Sweden
3. Varunavat	-	India
4. Bidkin	-	Germany

How many of the pair(s) given above is/are correctly matched?

- Only one
- Only two
- Only three
- All four

Answer : c

El Laco, Kiruna, Varunavat & Bidkin

- **El Laco** - Is an example of an enigmatic type of magma.
- It is situated at **Chile**.
- **Kiruna** - It is an extinct volcano situated in **Sweden**.
- The *largest deposit of rare earth metals in Europe* is located in Kiruna, Sweden.
- **Varunavat** - Is a *mountain* situated at the **Uttarakhand**.
- **Bidkin** - Is an Industrial Area situated at **Maharashtra**.
- Recently Prime Minister, Shri Narendra Modi, has dedicated the Bidkin Industrial Area (BIA) to the marking a significant milestone in India's industrial development.

