

## *10 PM Current Affairs Quiz Compilation*

**26<sup>th</sup> Sep to 1<sup>st</sup> Oct, 2022**

**PRELIMS**

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**Q.1) Consider the following statements with respect to Pakke Tiger Reserve:**

1. It is present in Arunachal Pradesh.
2. It lies in the Eastern Himalaya Biodiversity Hotspot.
3. River Kameng flows to the east of this reserve.

**Which of the statements given above are correct?**

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

**Answer: A**

**Explanation –**

Pakke Tiger Reserve also known as Pakhui Tiger Reserve is present in Arunachal Pradesh. It lies in the Eastern Himalaya Biodiversity Hotspot.

It has won Indian Biodiversity Award 2016 in the category of Conservation of threatened species for its Hornbill Nest Adoption Programme.

It is bounded by Kameng River in the west and north and by Pakke River in the east.

Source: <https://www.thehindu.com/sci-tech/energy-and-environment/four-rescued-bear-cubs-set-to-be-released-in-arunachal-national-park/article65933894.ece>

**Q.2) With reference to coffee production in India consider the following statements:**

1. Coffee requires an average temperature of 15°C to 28°C with 100-200 cm rainfall annually.
2. Coffee plants can survive in extreme sunlight.
3. Karnataka is the leading coffee producer state in India.

**Which of the statements given above are correct?**

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

**Answer: C**

**Explanation –**

**Statement 1:** Coffee requires an average temperature of 15°C to 28°C with 100-200 cm rainfall annually.

**Statement 2:** The statement is incorrect. Coffee plants cannot survive in extreme sunlight that is why they are planted below the shade of other plants.

**Statement 3:** Karnataka is the leading coffee producer state in India.

Source: <https://www.thehindu.com/news/national/kerala/price-of-robusta-coffee-touches-all-time-high-as-brazilian-production-declines/article65927493.ece>

**Q.3) With reference to Attorney General of India consider the following statements:**

1. Attorney General is the highest law officer in the country.
2. The term of Attorney General is fixed for a period of five years by the Constitution.
3. Attorney General has the right to speak and take part in proceedings of both the Houses of Parliament.

**Which of the statements given above are correct?**

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

**Answer: A**

**Explanation –**

**Statement 1:** Attorney General is the highest law officer in the country.

**Statement 2:** The statement is incorrect. The term of Attorney General not fixed by the Constitution. He/She holds office during the pleasure of President.

**Statement 3:** Attorney General has the right to speak and take part in proceedings of both the Houses of Parliament but he cannot vote in the house.

**Source:** <https://indianexpress.com/article/india/mukul-rohatgi-declines-attorney-generals-post-8172639/>

**Q.4) Consider the following statements:**

1. Covid is a respiratory disease while flu is a stomach disease.
2. Covid is caused by SARs-CoV-2 virus while flu is caused by influenza virus.

**Select the correct answer using the codes given below:**

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

**Answer: B**

**Explanation –**

**Statement 1:** The statement is incorrect. Both Covid-19 and flu are respiratory diseases.

**Statement 2:** Covid is caused by SARs-CoV-2 virus while flu is caused by influenza virus.

**Source:** <https://timesofindia.indiatimes.com/life-style/health-fitness/health-news/coronavirus-vs-flu-which-is-riskier-and-more-dangerous-now/photostory/94431749.cms?picid=94431761>

**Q.5) With reference to grey-zone activities, consider the following statements;**

1. These activities will occur during the war time of any nation.
2. These include economic activities, influence operations, cyberattacks, mercenary operations and others.

**Which of the statements given above is/are correct?**

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

**Answer: B**

**Statement 1 is incorrect:** The grey zone describes a set of activities that occur between peace and war situations.

**Statement 2 is correct:** They are often tailored toward the vulnerabilities of the target state. For instance, nefarious economic activities, influence operations, cyberattacks, mercenary operations, assassinations, and disinformation campaigns, etc.

**Source:** [ForumIAS](#)

**Q.6) Which of the following countries are not part of Asian Palm Oil Alliance (APOA)?**

1. India
2. Pakistan
3. China
4. Bangladesh
5. Bhutan

**Select the correct answer from the codes given below**

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

**Answer: C**

Edible oil trade associations from five palm oil importing countries in South Asia – India, Pakistan, Sri Lanka, Bangladesh and Nepal announced the setting up of Asian Palm Oil Alliance (APOA).

**Source:** [Financial Expresss](#)

**Q.7) Operation Megh-Chakra, was seen in news, is related to which of the following?**

- a) An action against drug trafficking in India.
- b) A drive against the circulation and sharing of Child Sexual Abuse Material (CSAM).
- c) An operation of Railway to protect women travelers in train.
- d) An operation of the army in the North East under AFSPA.

**Answer: B**

Operation Megh Chakra is a pan-India drive against the circulation and sharing of Child Sexual Abuse Material(CSAM).

The operation is being carried out following the inputs received from [Interpol's](#) Singapore special unit.

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**Note:** CBI had launched a similar exercise code-named “**Operation Carbon** in 2021 in which the suspects in 13 States and one Union Territory were raided.

Source: [ForumIAS](#)

**Q.8) With reference to Neurodiversity, consider the following statements;**

1. It refers including people with neurodivergent conditions.
2. Autism spectrum disorders, dyslexia, dyspraxia, dyscalculia are considered as neurodivergent conditions.

**Which of the statements given above is/are correct?**

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

**Answer: C**

Neurodiversity in the workplace refers to including people with neurodivergent conditions such as attention-deficit/hyperactivity disorder, autism spectrum disorders, dyslexia, dyspraxia, dyscalculia and Asperger's Syndrome.

Source: [ForumIAS](#)

**Q.9) Double Asteroid Redirection Test (DART) mission was launched by which of the following organisation?**

- a) Russian Federation Space Agency (RFSA)
- b) National Aeronautics and Space Administration (NASA)
- c) European Space Agency (ESA)
- d) Japan Aerospace Exploration Agency (JAXA)

**Answer: B**

Source: [ForumIAS](#)

**Q.10) With reference to Monsoon in India, consider the following statements;**

1. The monsoon system ceases to pour rain over India from October 1.
2. The IMD only counts the rainfall between June 1 and September 30 as monsoon rainfall.

**Which of the statements given above is/are incorrect?**

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

**Answer: A**

**Statement 1 is incorrect:** The monsoon system doesnot ceases to pour rain over India from October 1. monsoon-related rain can continue well into the first fortnight of October and only really retreats from India by late October. It is then replaced by the retreating, or northeast monsoon in November which is the key source of rainfall for several parts of Tamil Nadu, Andhra Pradesh and north interior Karnataka.

**Statement 2 is correct:** The IMD only counts the rainfall between June 1 and September 30 as monsoon rainfall.

Source: [ForumIAS](#)

**PRELIMS**

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**Q.1) With reference to Navigation with Indian Constellation (NavIC) consider the following statements:**

1. It is an independent stand-alone navigation satellite system developed by the Indian Space Research Organisation.
2. It consists of six satellites which covers the globe.

**Select the correct answer using the codes given below:**

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

**Answer: A**

**Explanation –**

**Statement 1:** Navigation with Indian Constellation (NavIC) is an independent stand-alone navigation satellite system developed by ISRO.

**Statement 2:** The statement is incorrect. NavIC consists of eight satellites and covers the whole of India's landmass and up to 1,500 km (930 miles) from its boundaries. It currently does not cover places around the globe like GPS. But the government will try to push its global coverage.

**Source:**<https://indianexpress.com/article/explained/explained-sci-tech/explainer-navic-indias-home-grown-alternative-to-the-gps-navigation-system-8173951/>

**Q.2) With reference to cultural history of India consider the following statements:**

1. Iron tools were produced for hunting at Natham Medu.
2. Keeladi was an urban settlement of Sangam Age on the banks of River Vaigai.

**Which of the statements given above is/are correct?**

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

**Answer: B**

**Explanation –**

**Statement 1:** The statement is incorrect. Natham Medu was likely a place where stone tools were produced for hunting.

**Statement 2:** Keeladi was an urban settlement of Sangam Age on the banks of River Vaigai.

**Source:**<https://indianexpress.com/article/cities/chennai/axes-scrappers-handmade-tiles-latest-finds-in-excavation-near-chennai-8172750/>

**Q.3) Consider the following statements:**

1. A thermokarst lake is a freshwater lake that is formed in a depression formed by thawing ice-rich permafrost.
2. Methane has a longer atmospheric lifetime than carbon dioxide.

**Which of the statements given above is/are correct?**

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

**Answer: A**

**Explanation –**

**Statement 1:** A thermokarst lake is a freshwater lake that is formed in a depression formed by thawing ice-rich permafrost.

**Statement 2:** The statement is incorrect. Methane has a shorter atmospheric lifetime than carbon dioxide. It is the primary contributor to the formation of ground-level ozone which is a hazardous air pollutant.

**Source:** <https://www.thehindu.com/sci-tech/energy-and-environment/newly-formed-lakes-in-alaska-is-releasing-bubbles-full-of-methane/article65937494.ece>

**Q.4) With reference to Asian Development Bank (ADB) consider the following statements:**

1. It uses a weighted voting method in which votes are awarded in proportion to members' capital contributions.
2. India is one of the largest five shareholders of ADB.
3. It is headquartered at Manila, Philippines

**Select the correct statement using the codes given below:**

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

**Answer: D**

**Explanation –**

**Statement 1:** ADB uses a weighted voting method in which votes are awarded in proportion to members' capital contributions. It is similar to World Bank in method of voting.

**Statement 2:** ADB's five largest shareholders are Japan, the United States, the People's Republic of China, India, and Australia.

**Statement 3:** It is headquartered at Manila, Philippines Source:

<https://www.thehindu.com/news/international/asian-development-bank-announces-14-billion-support-for-food-security-in-asia-pacific/article65941108.ece>

**Q.5) With reference to Broad-billed sandpiper, consider the following statements;**

1. It is a bird species that lives in the areas around North America.
2. It is listed as Least Concern in IUCN.

**Which of the statements given above is/are correct?**

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

**Answer: B**

**Statement 1 is incorrect:** Broad-billed sandpiper is a migratory bird species found in Northern Europe, particularly in the Nordic Countries such as Norway, Sweden, Finland, and in Siberia.

**Statement 2 is correct:** It is listed as Least Concern in IUCN.

Source: [The Hindu](#)

**Q.6) AVGAS 100 LL, was seen in news recently, is related to which of the following?**

- a) New strain of Covid Virus
- b) Newly developed Pakistan's missile system
- c) India's own aviation fuel for piston engine
- d) A fighter jet of Israel

**Answer: C**

AVGAS 100 LL is a special aviation fuel meant for piston engine aircrafts and Unmanned Aerial Vehicles. Currently, India is importing this product from European countries.

Source: [PIB](#)

**Q.7) With reference to semiconductors, which of the following statement is/are correct?**

1. They have conductivity between conductors and insulators.
2. 7 nanometer (nm) ones are the most-advanced semiconductor technology nodes available today.
3. Semiconductors having higher nanometer value are applied in automobiles, consumer electronics

**Select the correct answer using the codes given below;**

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

**Answer: B**

**Statement 1 is correct:** They have conductivity between conductors and insulators.

**Statement 2 is incorrect:** The most-advanced semiconductor technology nodes available today are the 3 nm and the 5 nanometers (nm) ones.

**Statement 3 is correct:** Semiconductors having higher nanometer value are applied in automobiles, consumer electronics. On the other hand, those with lower values are used in devices such as smartphones and laptops.

Source: [The Hindu](#)



**Q.8) Nanjarayan tank bird sanctuary is located in which of the following states?**

- a) Kerala
- b) Tamil Nadu
- c) Maharashtra
- d) Rajasthan

**Answer: B**

**Source:** [The Hindu](#)

**Q.9) With reference to sounding rockets, consider the following statements;**

1. These are primarily intended for probing the upper atmospheric regions using rocket-borne instrumentation.
2. India currently imports the sounding rockets for its purpose.

**Which of the statements given above is/are correct?**

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

**Answer: A**

**Statement 1 is correct:** These are primarily intended for probing the upper atmospheric regions using rocket-borne instrumentation.

**Statement 2 is incorrect:** In 1967, ISRO started launching a series of its own sounding rockets named Rohini from the Thumba Equatorial Rocket Launching Station (TERLS).

RH-75 was the first truly Indian-sounding rocket which was followed by RH-100 and RH-125 rockets. Currently, the RH200, RH300 MkII and RH560 Mk-III rockets are operational.

**Source:** [The Hindu](#)

**Q.10) Consider the following statements;**

1. It is a major centre of Jain influence for 1,000 years just before the Christian era.
2. This is the only place in Tamil Nadu where one can see Pandya paintings.
3. The site is an early example of post-Ajanta cave paintings of the fourth to sixth centuries.
4. The site has inscriptions of Ilan-Gautaman.

**Which of the following sites has been described in the statements above?**

- a) Chitharal
- b) Sittanavasal
- c) Mandagapattu
- d) Kurattiyarai

**Answer: B**

**Source:** [The Hindu](#)

**PRELIMS**

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**Q.1) With reference to National Clean Air Programme consider the following statements:**

1. The program will help to deal with air pollution across India.
2. It has set target to reduce only PM2.5 by 20 to 30 per cent.

**Select the correct statement using the code given below:**

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

**Answer: A**

**Explanation –**

**Statement 1:** National Clean Air Programme will take efforts to deal with air pollution across India.

**Statement 2:** The statement is incorrect. It has set target to reduce PM2.5 and PM10 by 20 to 30 percent by 2024.

**Source:** <https://www.thehindu.com/news/national/national-clean-air-programme-centre-aims-at-40-reduction-in-particulate-matter-by-2026/article65941247.ece>

**Q.2) Karatoya river is located in –**

- a) India
- b) Pakistan
- c) Myanmar
- d) Bangladesh

**Answer: D**

**Explanation –**

Karatoya River is a small stream in Rajshahi Division of Bangladesh.

**Source:** <https://www.dnaindia.com/world/report-bangladesh-24-dead-several-missing-after-boat-sinks-in-karatoya-river-2988026>

**Q.3) With reference to the climate change consider the following statements:**

1. Climate change is making cyclones weaker.
2. Climate change is causing cyclones to travel more slowly.
3. Climate change can also boost the amount of rainfall delivered by a cyclone.

**Which of the statements given above are correct?**

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

**Answer: B**

**Explanation –**

**Statement 1:** The statement is incorrect. Climate change is making hurricanes wetter, windier and altogether more intense.

**Statement 2:** There is also evidence that climate change is causing cyclones to travel more slowly, meaning they can dump more water in one place.

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**Statement 3:** Climate change can also boost the amount of rainfall delivered by a cyclone. Because a warmer atmosphere can also hold more moisture, water vapor builds up until clouds break, sending down heavy rain.

**Source:** <https://www.indiatoday.in/environment/story/explained-how-climate-change-is-fueling-hurricanes-2005310-2022-09-27>

**Q.4) With reference to Sathyamangalam Tiger Reserve consider the following statements:**

1. The Eastern and Western Ghats merge at this tiger reserve.
2. The reserve is an extension of the Nilgiri Biosphere Reserve.
3. Tropical evergreen forest is mostly found in this reserve.

**Which of the statements given above are correct?**

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

**Answer: A**

**Explanation –**

**Statement 1:** Sathyamangalam Tiger Reserve is situated in the Erode district of Coimbatore in Tamil Nadu. The Eastern and Western Ghats merge at this tiger reserve.

**Statement 2:** The reserve is an extension of the Nilgiri Biosphere Reserve.

**Statement 3:** The statement is incorrect. Tropical dry forest is mostly found in this reserve.

**Source:** <https://www.thehindu.com/news/cities/Coimbatore/youth-goes-missing-inside-erode-sathyamangalam-tiger-reserve/article65945088.ece>

**Q.5) With reference to White fly, consider the following statements;**

1. Most of the whitefly species are native to the Caribbean islands or Central America.
2. The pest affects photosynthesis, the food-making process of the plant, and lowers the strength of the plant.

**Which of the statements given above is/are correct?**

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

**Answer: C**

Whitefly is a serious pest of cotton that lowers yield by feeding on the underside of the leaf and spreading diseases like Cotton Leaf Curl Virus. Most of the whitefly species are native to the Caribbean islands or Central America. In India, the first invasive whitefly was reported in Kerala in 1995.

Whiteflies feed on the sap of the leaves and release fluid onto the leaves on which a black fungus grows. This affects photosynthesis, the food-making process of the plant, and so lowers the strength of the plant.

**Source:** [DTE](#)

**Q.6) All-India Quarterly Establishment Based Employment Survey (AQEES) was released by which of the following organisation/department?**

- a) National Sample Survey Organisation(NSSO)
- b) Central Statistics Office
- c) Labour Bureau
- d) NITI Aayog

**Answer: C**

Quarterly Employment Survey(QES) is part of the All-India Quarterly Establishment Based Employment Survey (AQEES). It was released by Labour Bureau, Ministry of Labour and Employment.

**Source:** [The Hindu](#)

**Q.7) With reference to DART Mission, consider the following statements;**

- 1. It is the first technology demonstration of the kinetic impactor technique on Asteroid.
- 2. The target of the spacecraft is a moonlet called Didymos.

**Which of the statements given above is/are correct?**

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

**Answer: A**

**Statement 1 is correct:** DART is the first technology demonstration of the kinetic impactor technique. If successful, this technique could be used to mitigate the threat in case an asteroid heads towards Earth in the future.

**Statement 2 is incorrect:** The target of the spacecraft is a small moonlet called Dimorphos (Greek for "two forms"). Dimorphos orbits a larger asteroid named Didymos (Greek for "twin").

**Source:** [The Hindu](#)

**Q.8) With reference to Dadasaheb Phalke Award, consider the following statements;**

- 1. It is India's highest award in the field of cinema.
- 2. So far, the award is not awarded posthumously.
- 3. Swarna Kamal (Golden Lotus) medallion is associated with this award.

**Which of the statements given above is/are correct?**

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

**Answer: B**

**Statement 1 is correct:** The Dadasaheb Phalke Award is India's highest award in the field of cinema.

**Statement 2 is incorrect:** As of 2022, there have been 52 awardees. Among those, actor Prithviraj Kapoor (1971) and actor Vinod Khanna (2017) are the only posthumous recipients.

**Statement 3 is correct:** The recipient is honoured for their "outstanding contribution to the growth and development of Indian cinema". The award comprises a Swarna Kamal (Golden Lotus) medallion, a shawl, and a cash prize of ₹1,000,000.

**Source:** [All India Radio](#)

**Q.9) With reference to Thamirabarani River, consider the following statements;**

1. It is the only perennial river in Tamil Nadu.
2. It originates in the Kolli Hills of the Eastern Ghats

**Which of the statements given above is/are correct?**

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

**Answer: A**

**Statement 1 is correct:** Thamirabarani is the only perennial river in Tamil Nadu.

**Statement 2 is incorrect:** It originates in the Pothigai Hills of the Western Ghats in the Tirunelveli district.

**Source:** [DTE](#)

**Q.10) With reference to Ram Setu, consider the following statements;**

1. The structure has significance in Hindu mythology only.
2. It is a chain of limestone shoals between Rameswaram and Mannar Island.

**Which of the statements given above is/are correct?**

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

**Answer: B**

**Statement 1 is incorrect:** The structure has significance in both Hindu and Muslim mythology – while Hindus believe this is the bridge (setu) built by Lord Ram and his army to cross to Lanka and fight Ravan, as per Islamic legend, Adam used this bridge to reach Adam's Peak in Sri Lanka, where he stood on one foot for 1,000 years in repentance.

**Statement 2 is correct:** The Ram Setu, also known as Adam's Bridge, is a 48-km chain of limestone shoals between Rameswaram on India's southeast coast and Mannar Island near Sri Lanka's northwest coast.

**Source:** [Indian Express](#)

**PRELIMS**

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**Q.1) With reference to Varaha cave temples consider the following statements:**

1. The architecture of these temples is a blend of Nagara and Dravidian styles.
2. It is a monolithic rock-cut temple with a mandapa carved into the rock face of pink granite.

**Which of the statements given above is/are correct?**

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

**Answer: B**

**Explanation –**

**Statement 1:** The statements is incorrect. The architecture of Varaha temples is based only on Dravidian style of architecture.

**Statement 2:** Varaha cave temples are monolithic rock-cut temple with a mandapa carved into the rock face of pink granite.

**Source:** <https://www.thehindu.com/news/national/other-states/asi-finds-temples-buddhist-caves-in-bandhavgarh-tiger-reserve/article65947562.ece>

**Q.2) Consider the following statements with respect to Ethiopia:**

1. It is a landlocked country in the Horn of Africa.
2. It shares borders with Eritrea to the west.

**Select the correct answer using the codes given below:**

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

**Answer: A**

**Explanation –**

**Statement 1:** Ethiopia is a landlocked country in the Horn of Africa.

**Statement 2:** The statement is incorrect. It shares borders with Eritrea to the north, Djibouti to the northeast, Somalia to the east and northeast, Kenya to the south, South Sudan to the west, and Sudan to the northwest.

**Source:** <https://www.thehindu.com/news/international/satellite-images-show-eritrea-military-buildup-near-tigray/article65946243.ece>

**Q.3) With reference to paddy straw bedding consider the following statements:**

1. It provides comfort and mastitis control in animals.
2. It is better bedding material than any other material because of its low water retention capacity.

**Which of the statements given above is/are correct?**

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

**Answer: A**

**Explanation –**

**Statement 1:** Paddy straw bedding provides comfort and mastitis control in animals.

**Statement 2:** The statement is incorrect. Paddy straw bedding is natural and cheaper than other materials. Paddy straw, if dried and properly cut, is proven to be a better bedding material because of its high-water retention capacity, due to the high cellulose and silica content in the material.

**Source:** <https://indianexpress.com/article/explained/can-bedding-for-cattle-solve-the-paddy-stubble-problem-in-punjab-8178486/>

**Q.4) Consider the following:**

1. Mercury
2. Zinc
3. Chlorohydrocarbons
4. Deforestation

**Which of the above are responsible for soil degradation?**

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

**Answer: D**

**Explanation –**

Industrial sources such as fly ash, mercury, lead, copper, zinc, cadmium, cyanides, acids, organic substances, nuclear wastes are responsible for soil degradation. Chlorohydrocarbons (CHCs) like DDT also cause soil degradation.

**Source:** <https://www.thehindu.com/news/national/tehrangana/save-the-soil-for-future-generations/article65946447.ece>

**Q.5) With reference to Silphion, consider the following statements;**

1. The resin of the Silphion was extensively used as a spice, perfume, aphrodisiac, contraceptive and medicine.
2. It is a yellow-flowered plant that was thought to have gone extinct some 2,000 years ago.

**Which of the statements given above is/are correct?**

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

**Answer: C**

**Statement 1 is correct:** The resin of the Silphion was extensively used as a spice, perfume, aphrodisiac, contraceptive and medicine.

**Statement 2 is correct:** is a yellow-flowered plant that was thought to have gone extinct some 2,000 years ago.

**Source:** [DTE](#)

**Q.6) Bandhavgarh Forest Reserve is located in which of the following state?**

- a) Maharashtra
- b) Madhya Pradesh
- c) Chhattisgarh
- d) Rajasthan

**Answer: B**

**Source:** [PIB](#)

**Q.7) With reference to Neelakurinji Flower, consider the following statements;**

1. It blooms only once in every 12 years.
2. It has been categorized as endangered species.
3. The flower has an excellent smell and enormous medicinal value.

**Which of the statements given above is/are correct?**

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

**Answer: C**

**Statement 1 is correct:** Nilgiri Hills, which literally means the blue mountains, got their name from the purplish blue flowers of Neelakurinji that bloom only once in 12 years. It is rarest of rare plant species that grows in Western Ghats and does not grow in any other part of the world. Besides the Western Ghats, Neelakurinji is also seen in the Shevroy in the Eastern Ghats, Sanduru hills of Bellary district in Karnataka.

**Statement 2 is correct:** It has been categorized as endangered species.

**Statement 3 is incorrect:** The flower has no smell or any medicinal value. Paliyan tribal people living in Tamil Nadu use this flower bloom as reference to calculate their age.

**Source:** [Indian Express](#)



**Q.8) Which of the following is/are tributary/tributaries of Brahmaputra?**

1. Pranhita
2. Dibang
3. Kameng

**Select the correct answer using the code given below:**

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

**Answer: B**

The principal tributaries of the Brahmaputra River joining from the right are Kameng, Subansiri, Manas, Sankosh and Teesta whereas Lohit, Dibang, Burhidihing, Desang, Dikhow, Dhansiri join it from the left.

Note: The Pranhita (combined flow of Wainganga, Penganga, Wardha) is a tributary of Godavari River.

**Source:** [Indian Express](#)

**Q.9) With reference to Just War Theory, consider the following statements;**

1. It aims to provide a guide to the right way for states to act in potential conflict situations.
2. It only applies to states, and not to individuals.

**Which of the statements given above is/are correct?**

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

**Answer: C**

**Both the statements are correct.**

The aim is to provide a guide to the right way for states to act in potential conflict situations. It only applies to states, and not to individuals (although an individual can use the theory to help them decide whether it is morally right to take part in a particular war).

The theory is not intended to justify wars but to prevent them, by showing that going to war except in certain limited circumstances is wrong and thus motivates states to find other ways of resolving conflicts.

**Source:** [BBC](#)

**10 PM Compilation for the Month of September, (Fourth Week) 2022**

**Q.10) With reference to Mughal Architecture, consider the following statements;**

1. Sarais was a complex mix of official and residential-cum-pleasure palaces.
2. Jaali's cooling feature relies on the Venturi effect in a similar way to an air conditioning unit.

**Which of the statements given above is/are correct?**

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

**Answer: B**

**Statement 1 is incorrect:** Sarais were largely built on a simple square or a rectangular plan and were meant to provide temporary accommodation for Indian and foreign travelers, pilgrims, merchants, traders, etc.

Mandus was a complex mix of official and residential-cum-pleasure palace. These buildings did not retain heat. Local stone and marble were used to great advantage.

**Statement 2 is correct:** Jaali's cooling feature relies on the Venturi effect in a similar way to an air conditioning unit. When air passes through holes, it picks up velocity and penetrates afar. Due to the small apertures, the air gets compressed and when released it gets cooler.

**Source:** [Indian Express](#)

**PRELIMS**

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**Q.1) Consider the following statements:**

1. It is a kharif crop.
2. It requires temperature between 21 degrees and 30 degrees Celsius.
3. It is sensitive to excessive moisture and water logging.

**Which of the following crop requires the above conditions?**

- a) Rice
- b) Cotton
- c) Mustard
- d) Wheat

**Answer: B**

**Explanation –**

Cotton is a kharif crop that requires temperature between 21 degrees and 30 degrees Celsius. It requires moderate rainfall between 50-75 cm. It is sensitive to excessive moisture and water logging.

**Source:** <https://www.thehindu.com/news/national/karnataka/cotton-growers-in-yadgir-a-worried-lot-as-excess-moisture-in-soil-damages-crops/article65950279.ece>

**Q.2) With reference to Ayushman Digital Mission consider the following statements:**

1. It aims to provide digital health IDs for all Indian citizens.
2. Health IDs have been made mandatory for all citizens.
3. It creates Healthcare Professionals' Registry (HPR) and Healthcare Facilities Registry (HFR) which allows electronic access to medical professionals and health infrastructure.

**Which of the statements given above are correct?**

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

**Answer: C**

**Explanation –**

Ayushman Digital Mission aims to provide digital health IDs for all Indian citizens. It is voluntary and free of cost.

It also creates Healthcare Professionals' Registry (HPR) and Healthcare Facilities Registry (HFR) which allows electronic access to medical professionals and health infrastructure.

**Source:** <https://www.thehindu.com/news/national/karnataka/ayushman-digital-mission-karnataka-tops-in-registration-of-health-facilities/article65947648.ece>

## 10 PM Compilation for the Month of September, (Fourth Week) 2022

**Q.3) With reference to Asiatic Lions consider the following statements:**

1. They are bigger than African Lions.
2. They have been listed in Schedule I of Wildlife (Protection) Act 1972.

**Select the correct answer using the codes given below:**

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

**Answer: B**

**Explanation –**

Asiatic Lions are little smaller than African Lions. They have been listed in Schedule I of Wildlife (Protection) Act 1972 and listed Endangered in the IUCN red data list.

**Source:** <https://www.thehindu.com/sci-tech/energy-and-environment/asiatic-lions-sidelined-for-african-cheetahs/article65917788.ece>

**Q.4) Dark data was seen in the news recently. It is –**

- a) the unused and untapped data across an organization generated due to daily online interactions of users with devices and systems.
- b) the dark energy that is stored in the universe.
- c) the data that is stored on computer with limited user access.
- d) the data that is required to achieve net zero target by eliminating dark pollutants.

**Answer: A**

**Explanation –**

Dark data is the unused and untapped data across an organization generated due to daily online interactions of users with devices and systems.

**Source:** <https://www.thehindu.com/sci-tech/energy-and-environment/dark-data-is-killing-the-planet-we-need-digital-decarbonisation/article65953995.ece>

**Q.5) Which of the following is/are the potential impact of asteroid on Earth?**

1. Damage the ozone layer.
2. Cause damage similar to a nuclear explosion.
3. It might cause the extinction of some species.

**Select the correct answer from the codes given below;**

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

**Answer: D**

A large meteorite burning up in the lower atmosphere could damage the ozone layer, or release enough energy to cause damage similar to a nuclear explosion.

Approximately 66 million years ago, a very large meteorite crashed into the Yucatan region of Mexico and caused the extinction of a large number of animal and plant species. It caused tsunamis and led to a nuclear winter that lasted a long time. It is estimated that the object was around 10 km in diameter and it caused a crater that's 180 km wide and 2 km deep.

**Source:** [Business Standard](#)

**Q.6) With reference to NavIC and GPS, consider the following statements;**

1. GPS only has geosynchronous satellites, but the NavIC has both geostationary and geosynchronous satellites.
2. GPS is accurate up to 5-10 meters on land against 20-30 meters for NavIC.

**Which of the statements given above is/are correct?**

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

**Answer: A**

**Statement 1 is correct:** The GPS needs nearly 24 operational satellites and has 31 satellites in orbit. All 55 satellites are geosynchronous satellites which means that they do not remain stationary in space regarding the revolving earth.

NavIC has 3 geostationary satellites and 4 geosynchronous satellites which are placed in much higher orbits due to which the signal is less prone to obstructions.

The GPS uses a single frequency band while the NavIC satellites use dual frequency bands (L5-band and S-band).

**Statement 2 is incorrect:** NavIC is said to be accurate up to 5-10 meters on land against 20-30 meters for GPS.

**Source:** [Mint](#)

**Q.7) Kushiyara River flows in which of the following state?**

- a) Kerala
- b) Assam
- c) Himachal Pradesh
- d) Tripura

**Answer: B**

The Kushiyara River is a distributary river in Bangladesh and Assam, India.

It forms on the India-Bangladesh border as a branch of the Barak River, when the Barak separates into the Kushiyara and Surma.

The waters that eventually form the Kushiyara originate in the uplands of the state of Assam and pick up tributaries from Nagaland and Manipur.

**Source:** [Mint](#)

**Q.8) With reference to Chief of Defence Staff, consider the following statements;**

1. The CDS is a four-star General/Officer who acts as the Principal Military Advisor to the Defence Minister on all tri-services matters.
2. The CDS works under the Department of Military Affairs, which is headed by Defence Minister.
3. He acts as the military advisor to the Nuclear Command Authority.

**Which of the statements given above is/are correct?**

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

**Answer: A**

**Statement 1 is correct:** The CDS is a four-star General/Officer who acts as the Principal Military Advisor to the Defence Minister on all tri-services matters.

**Statement 2 is incorrect:** The CDS heads the Department of Military Affairs within the Ministry of Defence and acts as its secretary.

**Statement 3 is correct:** He acts as the military advisor to the Nuclear Command Authority.

**Source:** [The Hindu](#)

**Q.9) With reference to Potash fertilizer, consider the following statements;**

1. India meets 100% of its Potash requirement through imports.
2. Potash is used both for direct application as MOP as well as in combination with 'N' & 'P' nutrients in NPK fertilizers.

**Which of the statements given above is/are correct?**

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

**Answer: C**

**Both the statements are correct.**

Potash, which is source of Potassium, is used both for direct application as MOP as well as in combination with 'N' & 'P' nutrients in NPK fertilizers.

India meets 100% of its Potash requirement through imports. The country imports approximately 40 LMT MOP annually.

In a significant step towards ensuring long-term fertiliser availability for the farming community, India's fertiliser companies- Coromandel International, Chambal Fertilizers and Indian Potash Limited signed an MoU with Canpotex, Canada.

Canpotex is amongst the largest suppliers of Potash globally, exporting around 130 LMT of product annually to more than 40 countries and has been one of the suppliers to India.

**Source:** [PIB](#)

**10 PM Compilation for the Month of September, (Fourth Week) 2022**

**Q.10) With reference to Mahakaleshwar Temple, consider the following statements;**

1. It is presently located alongside the holy river Panna.
2. Unlike any other jyotirlingas in the country, the idol of Mahakaleshwar faces south.

**Which of the statements given above is/are correct?**

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

**Answer: B**

**Statement 1 is incorrect:** Mahakaleshwar, which means the 'Lord of time', refers to Lord Shiva. As per Hindu mythology, the temple was constructed by Lord Brahma and is presently located alongside the holy river Kshipra.

**Statement 2 is correct:** Mahakaleshwar Jyotirlinga in Ujjain is one of the 12 jyotirlingas considered the most sacred abodes of Shiva.

The temple's Mahakal Lingam is believed to be Swayambhu (self-manifested) and unlike any other jyotirlingas in the country, the idol of Mahakaleshwar faces south.

**Source:** [Indian Express](#)

**PRELIMS**

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**Q.1) With reference to National Commission for Women (NCW) consider the following statements:**

1. It is a constitutional body.
2. It advises the government on all policy matters that affects women.

**Select the correct answer using the codes given below:**

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

**Answer: B**

**Explanation –** National Commission for Women is the statutory body of the Government of India. It is generally concerned with advising the government on all policy matters that affects women. Source: <https://indianexpress.com/article/india/ncw-explanation-ias-officer-bihar-sanitary-pads-row-8179944/>

**Q.2) With reference to International Telecommunication Union (ITU) consider the following statements:**

1. It is the United Nations specialized agency for information and communication technologies.
2. India is not one of its members.
3. The membership of ITU is only open for UN members.

**Which of the statements given above are correct?**

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

**Answer: C**

**Explanation –**

International Telecommunication Union (ITU) is the United Nations specialized agency for information and communication technologies. India is the member of ITU. The membership of ITU is only open for UN members.

**Source:** <https://timesofindia.indiatimes.com/gadgets-news/explained-the-role-and-importance-of-itu-the-worlds-oldest-telecom-agency/articleshow/94561287.cms>



**Q.3) With reference to Armed Forces Special Powers Act (AFSPA) consider the following statements:**

1. It grants the armed forces extraordinary powers and legal immunity to bring back order in disturbed areas.
2. It gives power to armed forces to arrest anyone even without a warrant.
3. This act can be applied in the state only after the consent of that state government.

**Which of the statements given above are correct?**

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

**Answer: A**

**Explanation –**

Armed Forces Special Powers Act (AFSPA) grants the armed forces extraordinary powers and legal immunity to bring back order in disturbed areas.

It gives power to armed forces to fire upon anyone who is acting against law and order, arrest anyone without a warrant, stop and search any vehicle or vessel, and prohibit a gathering of five or more people.

Statement 3 is incorrect. This act gives powers to the central government to unilaterally take the decision to impose AFSPA which means the consent of the state government is not important.

**Source:** <https://www.indiatoday.in/india/story/afspa-extended-arunachal-pradesh-nagaland-six-months-from-today-2007010-2022-10-01>

**Q.4) With reference to PUSA decomposer seen in the news recently consider the following statements:**

1. It is a capsule that decomposes paddy stubble at a faster rate than any other decomposers.
2. It improves the fertility and productivity of the soil.

**Select the correct statement using the code given below:**

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

**Answer: C**

**Explanation –**

PUSA decomposer has been developed by Indian Agriculture Research Institute (IARI), New Delhi. It is a capsule that decomposes paddy stubble at a faster rate than any other decomposers. It also improves the fertility and productivity of the soil.

**Source:** <https://www.dnaindia.com/explainer/report-winter-action-plan-delhi-government-s-15-points-plan-to-fight-air-pollution-explained-aap-stubble-burning-2989244>

**Q.5) World's first CNG (Compressed Natural Gas) terminal is going to be present in which of the following state?**

- a) Maharashtra
- b) Odisha
- c) Kerala
- d) Gujarat

**Answer: D**

Prime Minister Narendra Modi laid the foundation stone for the “world's first CNG (Compressed Natural Gas) terminal” at Bhavnagar in Gujarat. The Bhavnagar port is selected because of its close vicinity to the Dholera Special Investment Region (SIR) and is expected to serve the industries that set up base in the region.

**Source:** [Indian Express](#)

**Q.6) Which of the following statements is not correct about Lichens?**

- a) Lichens are a complex life form that is a symbiotic partnership of two separate organisms, a fungus and an alga.
- b) Lichens have roots or structures like other plants.
- c) Lichens are the first to appear on barren rocks, in deserts and icy terrain and after disturbances like landslides.
- d) Lichens are consumed by musk deer in winter.

**Answer: B**

Lichens do not have roots or structures like other plants, they depend on the atmosphere for air and water. So, the quality of ambience reflects in the diversity of lichens.

**Source:** [TOI](#)

**Q.7) With reference to Ranipur Tiger Reserve, consider the following statements;**

1. The Tiger Reserve has tropical evergreen climate.
2. It is located in Uttar Pradesh.

**Which of the statements given above is/are correct?**

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

**Answer: B**

**Statement 1 is incorrect:** The Tiger Reserve has tropical dry deciduous forests and is home to fauna such as tigers, leopards, sloth bears, spotted deer, sambhar, chinkara and a number of birds and reptiles.

**Statement 2 is correct:** It is located in Uttar Pradesh. It will be the fourth in UP after Dudhwa, Pilibhit and Amangarh (buffer of Corbett Tiger Reserve).

**Source:** [DTE](#)

**Q.8) The terms Kherson, Luhansk and Zaporizhzhia, were recently seen in news, is related to which of the following?**

- a) Rivers in Europe
- b) Fish species found in Arctic
- c) Areas in Ukraine
- d) Volcanoes in South America

**Answer: C**

Russia released vote tallies showing overwhelming support in four provinces of Ukraine to join with Russia. The four regions are Donetsk, Luhansk, Zaporizhzhia and Kherson.

Source: [The Hindu](#)

**Q.9) Which of the following is/are the benefits of Lichens?**

- 1. Lichens are used as spices and in perfumes.
- 2. Lichens have biochemicals which can treat cancers.
- 3. Lichens are used by birds and woolly flying squirrels to pad their nests.

**Select the correct answer from the codes given below;**

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

**Answer: D**

**Animals and birds depend on Lichens:** Some Lichens are consumed by musk deer in winter, when little else grows (this is similar to the Arctic reindeer which eat moss, after whom 'reindeer moss' is named), while others are used by birds and woolly flying squirrels to pad their nests.

Formed via a symbiotic relationship between fungus and algae, they resemble a micro-ecosystem and with lower plants like mosses. They attract insects, birds, snails, frogs and little animals needing food, habitat and shelter.

**Spices and perfumes:** Parmotrema tinctorum and Ramalina sinensis respectively are used as spices and in perfumes, particularly utilised in the famous perfumeries of Kannauj.

**Medicinal value:** Some lichens are used in medicines for asthma and fractures. Some lichens have biochemicals which can treat cancers.

**Source of income:** Villages usually collect lichen and sell it to traders for its many uses.

Source: [TOI](#)

**Q.10) With reference to Operation Garuda, consider the following statements;**

- 1. It is an operation against illicit drug trafficking networks.
- 2. It was launched by Narcotics Control Bureau (NCB).

**Which of the statements given above is/are correct?**

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

**Answer: A**

**Statement 1 is correct:** It is an operation against illicit drug trafficking network.

**Statement 2 is incorrect:** It was launched by Central Bureau of Investigation.

**Source:** [Livemint](#)