

WEEKLY QUIZ

DATE : 19th – 25th AUGUST

- 1) What is the primary reason for the recent increase in school attendance among girls in rural areas of India?
 - a) Introduction of free midday meals
 - b) State-run free bicycle schemes
 - c) Introduction of digital classrooms
 - d) Government scholarships for girls
- 2) What is unique about Eri Silk that has earned it the Oeko-Tex certification?
 - a) It is the most expensive type of silk in India.
 - b) It requires special chemical treatment to be woven.
 - c) It is produced using genetically modified silkworms.
 - d) It is the only silk that allows the moth to exit the cocoon naturally, making it vegan.
- 3) Who is responsible for filing a First Information Report (FIR) in cases of violence against healthcare workers, according to the new directive?
 - a) The victim healthcare worker
 - b) The police department
 - c) Heads of government hospitals
 - d) The Union Health Ministry
- 4) Which of the following statements regarding the filing of a First Information Report (FIR) in India is/are correct?
 1. An FIR is a written document prepared by the police when they receive information about the commission of a cognizable offense.
 2. Public health is a Central subject, and there is a specific Central law for preventing violence against healthcare workers.
3. The FIR must be filed by the police within six hours of any violence against healthcare workers on duty.

Select the correct answer using the code given below:

 - a) 1 only
 - b) 1 and 3 only
 - c) 2 and 3 only
 - d) 1, 2, and 3
- 5) What is the primary purpose of the “Bhavishya” software introduced by the Department of Pension and Pensioners’ Welfare (DOPPW)?
 - a) To streamline tax filing for government employees
 - b) To provide a platform for filing complaints against government services
 - c) To manage the recruitment process for government jobs
 - d) To automate and streamline the pension processing system for central government employees
- 6) A tug is a particular class of boat which helps mega-ships enter or leave a port. Which of the following technologies are being considered under the Green Tug Transition Program (GTTP) to power the new green tugs?
 - a) Diesel and petrol
 - b) Solar and wind
 - c) Battery-electric, hybrid, methanol, and green hydrogen
 - d) Nuclear and geothermal
- 7) Consider the following statements about the impact of increased prokaryote dominance due to ocean warming:

1. Increased prokaryote dominance could lead to a reduction in fish populations.
2. The dominance of prokaryotes may enhance the ocean's ability to absorb carbon emissions.
3. The shift in marine ecosystems could have implications for the global food supply.

How many of the above statements is/are incorrect?

- a) Only one
 - b) Only two
 - c) All three
 - d) None
- 8) Consider the following statements about Kazhuveli Bird Sanctuary:

1. Kazhuveli Bird Sanctuary is located on the Coromandel Coast in Tamil Nadu.
2. It is connected to the Bay of Bengal via Uppukalli Creek and Yedayanthittu estuary.
3. It lies within the Western Ghats biodiversity hotspot.

Which of the above statements is/are correct?

- a) 1 and 2 only
 - b) 1 and 3 only
 - c) 2 and 3 only
 - d) 1, 2, and 3
- 9) Where is the 90 MW Omkareshwar Floating Solar Project, commissioned by SJVN Green Energy Limited (SGEL), located?
- a) Rajasthan
 - b) Gujarat
 - c) Madhya Pradesh
 - d) Maharashtra

10) Consider the following statements regarding DNA profiling:

1. DNA profiling involves analyzing the entire human genome to establish identity.
2. It is increasingly accurate but can be affected by sample contamination.
3. DNA profiling should not be the sole basis for establishing guilt or innocence in the justice system.

Which of the above statements is/are correct?

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

11) What is the primary objective of the FSSAI's initiative titled "Micro-and Nano-Plastics as Emerging Food Contaminants"?

- a) To ban the use of plastic in food packaging
- b) To develop and validate methods for detecting microplastics in food products
- c) To reduce plastic production in India
- d) To introduce new food safety standards for organic products

12) Consider the following statements about the Arogya Maitri Disaster Management Cube:

1. The cube is part of the Indian Army's broader BHISHM initiative.
2. It integrates AI and data analytics for real-time monitoring during disaster management.
3. The cube's components are bulky and require heavy machinery for transportation.

Which of the above statements is/are correct?

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

13) Which of the following statements accurately describes the potential effects of the deep-winter heatwave in Antarctica?

1. It could lead to a reduction in the Antarctic Ice Sheet, raising global sea levels.
2. It might disrupt the global ocean circulation system, which regulates climate.
3. It could strengthen the polar vortex, leading to colder global temperatures.

How many of the above statements is/are correct?

- a) Only one
- b) Only two
- c) All three
- d) None

14) Consider the following statements regarding Ramsar sites in India:

1. Uttar Pradesh has the highest number of Ramsar sites in India.
2. The Nanjarayan Bird Sanctuary and Kazhuveli Bird Sanctuary are located in Tamil Nadu.
3. The Tawa Reservoir, recently added as a Ramsar site, is located in Uttar Pradesh.

Which of the above statements is/are correct?

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

15) Consider the following statements regarding the Court of Arbitration for Sport (CAS):

1. CAS operates under the International Council of Arbitration for Sport (ICAS) and is an independent institution focused on resolving sports-related disputes.
2. CAS adapts procedural rules to the unique needs of the sports world.
3. CAS has the authority to directly modify the rules of international sports federations.

How many of the above statements is/are correct?

- a) Only one
- b) Only two
- c) All three
- d) None

16) Consider the following statements regarding the “Super Blue Moon”:

1. A “Super Moon” occurs when a full moon is at its farthest point from Earth in its orbit, making it appear larger and brighter.
2. A “Blue Moon” refers to the second full moon in a calendar month or the third full moon in a season with four full moons.
3. The occurrence of a “Super Moon” and a “Blue Moon” together is a common astronomical event.

Which of the above statements is/are correct?

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

17) What is the primary objective of the European Space Agency’s Jupiter Icy Moons Explorer (JUICE) mission?

- a) To map Jupiter’s moons and investigate their subsurface water bodies for potential habitability
- b) To land on Jupiter and collect soil samples
- c) To study the effects of solar radiation on deep space probes
- d) None of the above

18) Which of the following best describes the immediate physiological response of the body during anaphylaxis?

- a) A slow and mild reaction to allergens with no significant impact on bodily functions.
- b) An excessive release of insulin that leads to a sudden drop in blood sugar levels.
- c) A rapid release of chemicals by the immune system that can cause the body to go into shock.
- d) Gradual inflammation of the skin with no involvement of the circulatory system.

19) Consider the following statements regarding the Union Minister's pilot program to transform Fair Price Shops (FPS) into Jan Poshan Kendras:

1. The FPS Sahay application was launched to enable paperless financing for FPS dealers.
2. Mera Ration App 2.0 was introduced to enhance services for beneficiaries.
3. The program includes NABL accreditation of laboratories to improve food quality control in the Public Distribution System (PDS).

Which of the above statements is/are correct?

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

20) Consider the following statements about waterspouts:

1. Waterspouts are always weaker than tornadoes and pose no significant threat.
2. Tornadic waterspouts are associated with severe thunderstorms and can cause significant destruction.
3. Fair-weather waterspouts are usually weaker and form during calm conditions.

How many of the above statements is/are correct?

- a) Only one
- b) Only two
- c) All three
- d) None

21) Which of the following statements regarding prokaryotes in marine ecosystems is correct?

- a) Prokaryotes include organisms with complex cell structures and a defined nucleus.
- b) Prokaryotes will decline more in biomass compared to other marine life as oceans warm.

c) The decline of prokaryotes will have no significant impact on marine ecosystems.

d) Prokaryotes play a vital role in supporting food chains and balancing carbon emissions in marine ecosystems.

22) Which of the following is a significant feature of the Small Satellite Launch Vehicle (SSLV)?

a) It can only launch satellites for communication purposes.

b) It is exclusively used for launching military satellites.

c) It provides a cost-effective, flexible, and rapid solution for satellite launches.

d) It is designed to carry payloads exceeding 1000 kg.

23) What significant discovery did scientists make using data from NASA's Mars Insight Lander?

a) Evidence of life on Mars

b) Discovery of a new type of mineral on Mars

c) Presence of liquid water deep within Mars' crust

d) Detection of an active volcano on Mars

24) Zoopharmacognosy is the study of which of the following?

a) The use of natural substances by animals to self-medicate

b) The behavior of animals in extreme environments

c) The impact of climate change on animal behavior

d) The genetic evolution of animals in different habitats

25) Consider the following statements about the operational nuclear power plants in India:

1. The Rajasthan Atomic Power Station is the only operational nuclear power plant in Rajasthan.

2. The Kudankulam Nuclear Power Plant is the southernmost nuclear power plant in India.

3. The Narora Atomic Power Station is located in Uttar Pradesh.

Which of the above statements is/are correct?

- a) 1 and 2 only
 - b) 2 and 3 only
 - c) 1 and 3 only
 - d) 1, 2, and 3
- 26) What is the primary significance of the new genome-editing tool developed by researchers from the ICAR-National Rice Research Institute and Pennsylvania State University?
- a) It is based on a protein from a bacterium called *Deinococcus radiodurans*.
 - b) It is the first genome-editing tool designed specifically for animals.
 - c) It is the largest genome-editing tool developed so far.
 - d) It is used exclusively for editing the genomes of dicots.
- 27) Which of the following correctly describe the potential impact of tensions in the South China Sea on international trade?
1. Disruption in the supply chain for global trade.
 2. Increased shipping costs due to rerouting of vessels.
 3. Significant reduction in petroleum product transportation globally.

How many of the above statements is/are incorrect?

- a) Only one
 - b) Only two
 - c) All three
 - d) None
- 28) What is the significance of KAPS-4, the nuclear reactor at Kakrapar Atomic Power Station (KAPS) in Gujarat?
- a) It is India's first nuclear reactor to achieve 1000 MW capacity.
 - b) It is India's second indigenous 700 MW nuclear reactor to operate at full capacity.
 - c) It is a foreign-designed nuclear reactor operating in India.
 - d) It is the oldest nuclear reactor still in operation in India.

29) Which of the following correctly describe the objectives of the Open Network for Digital Commerce (ONDC)?

1. Inclusivity and access for sellers.
2. Centralization of e-commerce activities.
3. Independence and increased choices for consumers.
4. Profit maximization for the ONDC platform.

Which of the above statements is/are correct?

- a) 1 and 2 only
 - b) 1 and 3 only
 - c) 2 and 4 only
 - d) 1, 3, and 4 only
- 30) Why are tensions in the South China Sea particularly concerning for global energy markets?
- a) The South China Sea is the only source of natural gas for East Asia.
 - b) The South China Sea accounts for the majority of global petroleum production.
 - c) About 40% of the world's petroleum products are transported through the South China Sea.
 - d) The South China Sea is home to the world's largest oil reserves.

31) What significant discovery did the Alpha Particle X-ray Spectrometer (APXS) on the Pragyan Rover of the Chandrayaan-3 mission make about the lunar soil in the South Polar Region of the Moon?

- a) Detection of water molecules in the lunar soil
- b) First in-situ elemental abundance measurements of lunar soil
- c) Discovery of new lunar minerals
- d) Identification of helium-3 in high concentrations

32) Consider the following statements regarding the territorial disputes in the South China Sea:

1. The Scarborough Shoal is a disputed territory between China and the Philippines.

2. The Spratly Islands are claimed by multiple countries, including China, Vietnam, and the Philippines.
3. Taiwan does not make any claims in the South China Sea.

How many of the above statements is/are correct?

- a) Only one
 - b) Only two
 - c) All three
 - d) None
- 33) Which of the following pairs are correctly matched regarding the location of nuclear power plants in India?
1. Kaiga Generating Station – Karnataka
 2. Kakrapar Atomic Power Station – Maharashtra
 3. Tarapur Atomic Power Station – Uttar Pradesh

Select the correct answer code:

- a) 1 only
 - b) 1 and 2 only
 - c) 2 and 3 only
 - d) 1 and 3 only
- 34) **With reference to ‘Hayflick limit’, consider the following statements**
1. It refers to the minimum number of times a cell can divide.
 2. The limit plays a crucial role in aging and the development of age-related diseases

Select the INCORRECT statement(s)

- a) 1 only
 - b) 2 only
 - c) Both 1 and 2
 - d) Neither 1 nor 2
- 35) **‘Banni Grasslands’, recently seen in news is located in**
- a) Rajasthan
 - b) Odisha
 - c) Uttarakhand
 - d) Gujarat

36) Consider the following statements with respect to ‘Vaccine-derived poliovirus’

Statement 1 – It is a documented variant of poliovirus that originates from the strain used in the oral polio vaccine (OPV).

Statement 2 – The excreted vaccine virus can circulate, undergo genetic changes, and cause paralysis in under-immunized populations

Which one of the following is correct in respect of the above statements?

- a) Both Statement-I and Statement-II are correct and Statement II is the correct explanation for Statement-I
- b) Both Statement-I and Statement-II are correct and Statement II is not the correct explanation for Statement-I
- c) Statement-I is correct but statement II is incorrect
- d) Statement -I is incorrect but Statement -II is correct

37) Consider the following statements about ‘Senior advocates’

1. They are designated under Bar Council of India Act
2. A senior advocate is permitted to appear without an Advocate-on-record or any junior.
3. He/she shall not accept directly from a client any brief or instructions to appear in any Court.

How many statement(s) mentioned above are correct

- a) Only one
 - b) Only two
 - c) All three
 - d) None of the above
- 38) **With reference to ‘Third Voice of Global South Summit’, consider the following statements**
1. India had earlier hosted the inaugural Voice of Global South Summit (VOGSS)
 2. The theme of the 3rd Voice of Global South Summit is “Century of the Global South”

Select the **INCORRECT** statement(s)

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

39) Consider the following statements with respect to ‘Antihyper Hydrogen-4’

Statement 1 – It is made up of an antiproton, two antineutrons and one antihyperon

Statement 2 – Both hyperhydrogen-4 and its antimatter counterpart antihyper hydrogen-4 seem to wink out of existence very quickly.

Which one of the following is correct in respect of the above statements?

- a) Both Statement-I and Statement-II are correct and Statement II is the correct explanation for Statement-I
- b) Both Statement-I and Statement-II are correct and Statement II is not the correct explanation for Statement-I
- c) Statement-I is correct but statement II is incorrect
- d) Statement -I is incorrect but Statement -II is correct

40) Consider the following statements about ‘Atomic clocks’

1. Atomic clocks are the most precise timekeeping devices, critical for applications requiring extreme accuracy
2. These clocks measure time using the resonant frequencies of atoms, such as cesium-133.
3. Cesium atomic clocks are the most accurate clocks and are known for their exceptional precision.

How many statement(s) mentioned above are correct

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

41) ‘ISDra2TnpB’ a term recently seen in news is a/an

- a) Novel pathogen
- b) Exoplanet
- c) Genome editor
- d) Ransomware

42) Consider the following statements with respect to ‘Quantum Nonlocality’

Statement 1 – It occurs due to the phenomenon of superposition, whereby particles that interact with each other become permanently correlated

Statement 2 – It describes the apparent ability of objects to instantaneously know about each other’s state, even when separated by large distances

Which one of the following is correct in respect of the above statements?

- a) Both Statement-I and Statement-II are correct and Statement II is the correct explanation for Statement-I
- b) Both Statement-I and Statement-II are correct and Statement II is not the correct explanation for Statement-I
- c) Statement-I is correct but statement II is incorrect
- d) Statement -I is incorrect but Statement -II is correct

43) Consider the following statements about ‘Joint Consultative Machinery’

1. It is a platform for constructive dialogue between the Government as employer and the employees.
2. The scheme is statutory and is mutually agreed upon between the staff side and the official side.
3. The scheme covers all regular civil employees of the Central Government

How many statement(s) mentioned above are correct

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

44) Consider the following statements about 'Diamonds'

1. Diamonds form in the Earth's mantle and are brought to the surface through volcanic activity
2. Botswana is the largest producer of synthetic industrial diamonds

Select the INCORRECT statement(s)

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

45) With reference to 'Glacial lakes', consider the following statements

1. It typically forms at the foot of a glacier, but may form on, in, or under it.
2. Most glacial lakes form when a glacier retreats and meltwater fills the hole left behind.

Select the correct statement(s)

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

46) In which of the following activities are Indian Remote Sensing (IRS) satellites used?

1. Assessment of crop productivity
2. Locating groundwater resources
3. Mineral exploration
4. Telecommunications
5. Traffic studies

Select the correct answer using the code given below:

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

47) With reference to India's satellite launch vehicles, consider the following statements:

1. PSLVs launch the satellites useful for Earth resources monitoring whereas GSLVs are designed mainly to launch communication satellites.
2. Satellites launched by PSLV appear to remain permanently fixed in the same position in the sky, as viewed from a particular location on Earth.
3. GSLV Mk III is a four-staged launch vehicle with the first and third stages using solid rocket motors; and the second and fourth stages using liquid rocket engines.

Which of the statements given above is/are correct?

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

48) In which one of the following groups are all four countries members of G20?

- a) Argentina, Mexico, South Africa and Turkey
- b) Australia, Canada, Malaysia and New Zealand
- c) Brazil, Iran, Saudi Arabia and Vietnam
- d) Indonesia, Japan, Singapore and South Korea

49) Consider the following statements:

1. The Mangalyaan launched by ISRO
2. is also called the Mars Orbiter Mission
3. made India the second country to have a spacecraft orbit the Mars after USA
4. made India the only country to be successful in making its spacecraft orbit the Mars in its very first attempt

Which of the statements given above is/are correct?

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

50) What is/are the consequence/consequences of a country becoming the member of the ‘Nuclear Suppliers Group’?

1. It will have access to the latest and most efficient nuclear technologies.
2. It automatically becomes a member of “The Treaty on the Non-Proliferation of Nuclear Weapons (NPT)”.

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

**IQRA**

Wisdom leads to success