

# WEEKLY QUIZ

**DATE : 4<sup>th</sup> Nov- 10<sup>th</sup> Nov**

1) Consider the following statements regarding the applications of Python with Processing-In-Memory (PIM) technology:

1. It is used exclusively for memory-intensive graphical applications.
2. Python with PIM can reduce data transfer bottlenecks, especially in mathematical computations.
3. This technology offers substantial energy savings for high-performance computing needs.

Which of the above statements is correct?

- a) 1 only
  - b) 1 and 2 only
  - c) 2 and 3 only
  - d) 1, 2, and 3
- 2) Consider the following statements regarding the One Rank One Pension (OROP) scheme:
1. OROP benefits apply uniformly to all ex-service personnel, including those discharged voluntarily after the scheme's implementation.
  2. The scheme provides for arrears to be paid in four half-yearly installments for most beneficiaries.
  3. Family pensioners and Gallantry awardees receive their arrears in a single installment.

Which of the above statements is correct?

- a) 1 and 2 only
  - b) 1, 2, and 3
  - c) 1 and 3 only
  - d) 2 and 3 only
- 3) Consider the following statements about the import and significance of Urad (black gram) in India:
1. Urad is a staple crop only grown in the Rabi season in India.

2. India imports a substantial amount of Urad from Brazil, among other countries, due to complementary cropping seasons.
3. Urad cultivation has recently spread to tropical regions, including the Caribbean and parts of Africa.

How many of the above statements is/are correct?

- a) Only one
  - b) Only two
  - c) All three
  - d) None
- 4) Which body was replaced by the Commission for Air Quality Management (CAQM) to oversee air quality improvement in NCR?
- a) National Green Tribunal (NGT)
  - b) Central Pollution Control Board (CPCB)
  - c) Environment Pollution (Prevention and Control) Authority (EPCA)
  - d) Ministry of Environment, Forest, and Climate Change (MoEFCC)
- 5) Dholera is part of which of the following unique development initiatives in India?
- a) Brownfield Industrial Park
  - b) Renewable Energy Cluster
  - c) Special Agricultural Economic Zone
  - d) India's first Greenfield Smart City
- 6) Consider the following statements about the India Semiconductor Mission (ISM):
1. ISM was launched with a dedicated budget under the Ministry of Commerce.
  2. The mission includes incentives to establish semiconductor fabs, display fabs, and compound semiconductor facilities.

3. ISM supports the creation of indigenous Intellectual Property (IP) within the semiconductor sector.

How many of the above statements is/are correct?

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

- 7) Consider the following statements about the Shanan Hydropower Project:

- 1. It is the first hydropower project in India with a capacity exceeding 100 MW.
- 2. The project is built directly on the Beas River in Himachal Pradesh.

Which of the above statements is/are correct?

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

- 8) Which of the following principles allows airships to achieve lift?

- a) Lighter-than-air principle using gases like helium or hydrogen
- b) Thrust-based propulsion like jet engines
- c) Magnetic levitation similar to Maglev trains
- d) Vacuum-filled compartments to reduce weight

- 9) Consider the following statements regarding Namibia's geography and neighboring borders:

- 1. Namibia shares its northeastern border with Zimbabwe.
- 2. The Kunene and Okavango are major rivers along Namibia's borders.
- 3. The Atlantic Ocean lies along Namibia's eastern border.

How many of the above statements is/are correct?

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

- 10) Consider the following statements regarding the Commission for Air Quality Management (CAQM):

- 1. CAQM can issue binding directions to authorities in Delhi-NCR and surrounding states to improve air quality.
- 2. CAQM has jurisdiction over all states in India.
- 3. The commission has powers to restrict activities that impact air quality negatively.

Which of the above statements is correct?

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

- 11) Consider the following statements regarding the designation of the Andaman and Nicobar Islands as a Tuna Cluster under the Pradhan Mantri Matsya Sampada Yojana (PMMSY):

- 1. The islands are close to Southeast Asia, making them ideal for tuna trade.
- 2. The region has over-utilized fisheries, needing regulation.
- 3. It has the largest tuna catch in the world.
- 4. The region is a popular tourism destination, which supports seafood trade.

Which of the above statements is correct?

- a) The islands are close to Southeast Asia, making them ideal for tuna trade.
- b) The region has over-utilized fisheries, needing regulation.
- c) It has the largest tuna catch in the world.
- d) The region is a popular tourism destination, which supports seafood trade.

- 12) Consider the following statements about the Telecom Technology Development Fund (TTDF):

- 1. TTDF primarily focuses on providing affordable telecom services in urban and suburban regions.
- 2. The fund is managed by the Department of Telecommunications under the Ministry of Communications.

3. TDF promotes technology co-innovation between academia, industry, and startups.
4. TDF provides grants to Indian entities involved in telecom innovation and indigenous manufacturing.

How many of the above statements is/are correct?

- a) Only one
- b) Only two
- c) Only three
- d) All four

13) Consider the following statements about Agrivoltaic farming:

1. Agrivoltaic farming requires panels to be installed very close to the ground to maximize energy output.
2. Shading from solar panels reduces water loss by decreasing evaporation from the soil.
3. Agrivoltaic farming is only possible in arid and semi-arid regions due to the need for high sunlight exposure.

Which of the above statements is correct?

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

14) Consider the following statements regarding the working principles of Gravity Energy Storage:

1. Gravity Energy Storage primarily stores energy by converting electrical energy into thermal energy.
2. This technology relies solely on batteries for energy storage and release.
3. The technology is ideal for urban areas with limited space as it requires only minimal infrastructure.
4. It is currently in the early stages of development, facing high initial setup costs and regulatory challenges.

How many of the above statements is/are correct?

- a) Only one
- b) Only two
- c) Only three
- d) All four

15) What is the primary objective of the PM Vidyalyaxmi Scheme?

- a) To provide job placements for students from top HEIs
- b) To offer financial assistance to meritorious students for quality higher education
- c) To create free hostel accommodations for economically backward students
- d) To establish a digital database of all students availing education loans

16) Which of the following is the primary threat to the survival of the Markhor (the world's largest wild goat) in its natural habitat?

- a) Predation by large carnivores in mountainous regions
- b) Lack of access to water sources in arid regions
- c) Loss of fur due to climate changes in high altitudes
- d) Habitat encroachment and illegal hunting for its distinctive horns

17) Consider the following statements about the economic benefits of agrivoltaic farming:

1. Agrivoltaic farming allows farmers to earn revenue from both agricultural produce and solar energy generation.
2. It requires significant reductions in crop production to make space for solar panels, thus lowering agricultural output.
3. Agrivoltaic systems often come with government incentives or subsidies, further supporting farmers' incomes.

Which of the above statements is correct?

- a) 1 and 3 only
- b) 2 and 3 only
- c) 1 and 2 only
- d) All of the above

18) Consider the following statements regarding Pradhan Mantri Matsya Sampada Yojana (PMMSY):

1. PMMSY includes both the Central Sector Scheme (CS) and Centrally Sponsored Scheme (CSS) as its main components.
2. The scheme focuses on enhancing the fisheries sector solely through funding for ornamental fisheries.
3. PMMSY has designated Hazaribagh District in Jharkhand as a priority area for pearl culture.

How many of the above statements is/are correct?

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

19) Consider the following statements regarding allulose:

1. Allulose is 100% as sweet as regular sugar, making it a perfect substitute for sugar in the same quantities.
2. Allulose can aid in weight management due to its nearly zero-calorie content.
3. It is classified as a “novel food” in the European Union, meaning its approval status is still pending.
4. Allulose is widely approved and recognized as safe for consumption without any reported side effects.

How many of the above statements is/are correct?

- a) Only one
- b) Only two
- c) Only three
- d) All four

20) Consider the following statements regarding the MAHASAGAR initiative:

1. MAHASAGAR involves annual in-person meetings of maritime agencies from Indian Ocean Region nations.
2. The initiative was started by India to address economic challenges in the Indian Ocean Region.
3. The recent edition of MAHASAGAR focused on maritime trade and resource sharing among Indian Ocean nations.

Which of the above statements is correct?

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

21) Which of the following best describes an “intermediary” as per the IT Act?

- a) An entity that has full editorial control over content it hosts
- b) An organization that creates and directly publishes its own content

- c) An entity that receives, stores, or transmits information created by third parties without editorial control
- d) A government body responsible for regulating internet content

22) Consider the following statements about the Proba-3 satellite’s mission details:

1. Proba-3 will primarily focus on exploring the deep space regions beyond our solar system.
2. The mission involves a single satellite designed to collect solar data.
3. The Proba-3 mission marks the first collaboration between ISRO and the European Union.
4. Proba-3 will launch from a European spaceport.

Which of the above statements is correct?

- a) 1 only
- b) 2 only
- c) 3 and 4 only
- d) None of the above

23) Which of the following statements about the Iranian satellite Kowsar is incorrect?

- a) Kowsar was launched as part of Iran’s national space expansion for military applications.
- b) Kowsar supports environmental monitoring and agricultural activities.
- c) Kowsar was developed for Earth observation.
- d) Kowsar was launched from the Vostochny Cosmodrome on a Russian Soyuz rocket.

24) Consider the following statements about Ranthambore Tiger Reserve (RTR):

1. Ranthambore Tiger Reserve is located at the meeting point of the Western Ghats and Vindhyas.
2. RTR has a tropical moist evergreen forest dominated by sal trees.
3. The Chambal and Banas rivers flow through parts of the reserve.
4. RTR was historically a hunting ground for the rulers of Udaipur.

How many of the above statements is/are correct?

- a) Only one
- b) Only two
- c) Only three

d) All four

25) Consider the following statements about the Maha Kumbh Mela:

1. The Maha Kumbh Mela is held every 6 years in Prayagraj.
2. The event involves performing sacred rituals aimed at spiritual liberation.
3. The Maha Kumbh Mela only takes place at the Triveni Sangam in Prayagraj.
4. The event's roots trace back to the Vedic period.

Which of the above statements are correct?

- a) 1 and 3 only
- b) 2 only
- c) 2 and 4 only
- d) None of the above

26) Consider the following statements about the administration and funding of the PM E-DRIVE scheme:

1. The scheme is administered by the Ministry of Heavy Industries.
2. A portion of the budget is allocated for information, education, and communication (IEC) activities related to EV awareness.
3. The scheme offers incentives for various EV types, including e-ambulances and e-trucks.
4. Grants are provided to upgrade EV testing facilities within India.

How many of the above statements is/are correct?

- a) Only one
- b) Only two
- c) Only three
- d) All four

27) Consider the following statements regarding the responsibilities of publishers under the IT Act:

1. Publishers are not liable for the content they create if they meet due diligence standards.
2. Publishers exercise editorial control over content on their platforms.
3. Unlike intermediaries, publishers cannot be penalized for defamatory or inaccurate content.

Which of the above statements is correct?

- a) 1 and 2 only
- b) 2 only

c) 1 and 3 only

d) None of the above

28) What did the Supreme Court recently rule regarding the interpretation of "material resources of the community" under Article 39(b) of the Indian Constitution?

- a) All private property is automatically classified as material resources of the community.
- b) Only publicly owned resources can be considered material resources of the community.
- c) Not all private properties can be classified as material resources of the community.
- d) The Directive Principles of State Policy mandate that all resources, public or private, be used for state welfare.

29) Consider the following statements regarding the historical development of the Kumbh Mela:

1. The Kumbh Mela gained prominence solely during the Gupta period as Hinduism spread.
2. The Chola dynasty in South India supported the Kumbh Mela, contributing to its growth.
3. British colonial documentation in the 19th century recorded the socio-religious significance of the Kumbh Mela.
4. Emperor Akbar banned the participation of Hindu religious groups in Kumbh Mela events.

Which of the above statements is correct?

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

30) Consider the following statements about the Eastern Dedicated Freight Corridor (EDFC):

1. The EDFC route stretches from Ludhiana in Punjab to Jodhpur in Rajasthan.
2. The corridor primarily transports consumer goods and textiles.
3. The EDFC reduces pressure on existing passenger railway tracks, improving punctuality.

How many of the above statements is/are correct?

- a) Only one
- b) Only two
- c) All three

d) None

31) What was the primary mandate of the Sanjay Kumar Committee in relation to the Western Ghats?

- a) To expand the Ecologically Sensitive Area (ESA) boundaries of all Western Ghats villages
- b) To designate the entire Western Ghats as ecologically sensitive
- c) To enforce conservation measures without field visits
- d) To review and validate objections from states regarding Ecologically Sensitive Area (ESA) demarcations

32) Consider the following statements regarding the factors contributing to foam formation in the Yamuna River:

1. The winter season enhances oxygen levels in the river, reducing foam formation.
2. Surfactants from detergents lead to foam formation when the river's natural dilution capacity is reduced.
3. Industrial effluents upstream of the Yamuna dilute the concentration of pollutants, minimizing foam.

How many of the above statements is/are correct?

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

33) During which period did Emperor Ashoka actively promote Buddha Dhamma across his empire?

- a) 6th Century BCE
- b) 3rd Century BCE
- c) 1st Century BCE
- d) 11th Century CE

34) Consider the following statements about the International Solar Alliance (ISA):

1. ISA was founded in 2015 and is headquartered in Geneva, Switzerland.
2. ISA is focused exclusively on promoting solar energy in developing countries.
3. ISA collaborates only with public sector entities to implement solar projects.

Which of the above statements are correct?

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

35) Which of the following unique engineering features is associated with the Kalka-Shimla Narrow-Gauge Railway?

- a) World's longest railway tunnel
- b) India's only double-track mountain railway
- c) World's highest multi-arc gallery bridge
- d) Longest railway bridge in Asia

36) What is the primary purpose of the Visible Emission Line Coronagraph (VELC) on the ADITYA-L1 mission?

- a) To observe the solar corona and investigate Coronal Mass Ejections (CMEs)
- b) To study the interior structure of the Sun
- c) To measure the solar magnetic field at the Sun's core
- d) To monitor the Sun's photospheric temperature variations

37) Consider the following statements about the Dhauladhar range:

1. Lam Dal Lake, a notable glacial lake, is located in the Dhauladhar range.
2. The range's highest peak is Indrahhar Pass.
3. The Dhauladhar range is primarily composed of limestone and sandstone.

Which of the above statements are correct?

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

38) Consider the following statements about the Asian Buddhist Summit 2024:

1. The summit will be organized by the Ministry of Tourism, Government of India.
2. The theme of the summit is "Buddhism for Global Peace."
3. The Asian Buddhist Summit was first initiated by the United Nations to promote interfaith harmony.

How many of the above statements is/are correct?

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

39) Which of the following accurately describes Lewotobi Laki-Laki?

- a) An extinct volcano located on Bali Island, Indonesia
- b) A twin volcano complex situated in central Sumatra, Indonesia
- c) An active stratovolcano on Flores Island, Indonesia, part of a twin volcano system
- d) A single, isolated dormant volcano in southeastern Indonesia

40) Consider the following statements regarding the defoaming process applied to the Yamuna River:

1. The defoamer solution used has been approved by the US FDA for safe application.
2. The defoaming process permanently resolves the foam issue in the river.
3. The National Mission for Clean Ganga (NMCG) monitors the application to ensure environmental safety.

How many of the above statements is/are correct?

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

41) Which of the following best describes the primary objective of the First in the World Challenge initiative launched by Indian Council of Medical Research (ICMR)?

- a) To fund large-scale public health awareness programs in India
- b) To encourage incremental advancements in existing medical technologies
- c) To foster bold, first-of-its-kind health innovations with global impact potential
- d) To promote traditional medicine and Ayurveda exclusively

42) Which of the following is correct regarding Sambhar Lake?

- a) It is the largest freshwater lake in India.

- b) It is the most saline lake in India and is Ramsar-listed.

- c) It is the largest artificial lake in India.

- d) It is the largest lake in Northeast India.

43) Which of the following best describes the primary purpose of the Tumaini Festival?

- a) To promote local business and commerce through art and craft sales
- b) To provide a competitive platform for regional musicians and artists
- c) To organize sports events among African countries
- d) To foster cultural exchange and highlight resilience, especially among refugees

44) Which of the following best describes the primary purpose of the Inactivated Polio Vaccine (IPV) in the Universal Immunization Programme (UIP)?

- a) To act as a booster dose, enhancing immunity when administered with DPT (Diphtheria, Pertussis, and Tetanus) vaccine
- b) To serve as a primary vaccine given only to infants at birth
- c) To provide lifelong immunity from the first dose itself
- d) To replace Oral Polio Vaccine (OPV) in polio-endemic countries

45) Which of the following best describes the primary role of the Dzaleka Refugee Camp?

- a) To serve as a temporary shelter exclusively for Malawian nationals
- b) To focus solely on resettlement and relocation efforts for refugees
- c) To provide a platform for humanitarian efforts, cultural exchange, and empowerment of refugees
- d) To exclusively house refugees from the Middle East

46) Consider the following statements regarding Electronic Voting Machines (EVMs):

1. EVMs are designed to handle voting for local body elections, state legislatures, and the Parliament.
2. They are manufactured by private firms under the supervision of the Election Commission.
3. EVMs have multilingual options to facilitate voting accessibility.

4. Each EVM can record up to 2,000 votes.

Which of the above statements are correct?

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

47) Consider the following statements about Mount Annapurna's geographical and climbing significance:

1. Mount Annapurna is located in the northern region of Bhutan.
2. It has the highest climbing success rate among the Himalayan peaks.
3. The Annapurna range forms a part of Gandaki Province in Nepal.

Which of the above statements is correct?

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

48) What feature makes Russia's RS-24 Yars missile distinct among intercontinental ballistic missiles?

- a) It uses liquid fuel for longer operational life.
- b) It is a stationary missile without mobility.
- c) It has a range limited to 5,000 km.

d) It is equipped with multiple independently targetable re-entry vehicles (MIRVs)

49) Which ministry administers the Namu Drone Didi Scheme?

- a) Ministry of Agriculture & Farmers' Welfare
- b) Ministry of Rural Development
- c) Ministry of Electronics and Information Technology
- d) Ministry of Women and Child Development

50) With respect to the Voter Verifiable Paper Audit Trail (VVPAT) feature in EVMs, consider the following statements:

1. VVPAT provides a printed slip with the name of the candidate the voter has selected.
2. The printed slip can be retained by the voter for future reference.
3. VVPAT is used as an audit mechanism to verify the electronic vote.
4. VVPAT was introduced to increase transparency and reduce doubts about EVM accuracy.

How many of the above statements is/are correct?

- a) Only one
- b) Only two
- c) Only three
- d) All four

