

WEEKLY QUIZ

DATE : 30th Dec- 5th Jan

- Which of the following factors poses the most significant challenge to the widespread adoption of satellite-based in-flight internet technology?**
 - Signal latency due to geostationary satellite positioning
 - Interference from ground-based cellular towers
 - Limited compatibility with next-generation aircraft systems
 - High data compression reducing internet quality
- Consider the following statements:**
 - Sree Narayana Guru promoted inter-caste marriages to combat caste-based discrimination.
 - He actively supported the Vaikom Satyagraha, which aimed to achieve temple entry rights for oppressed communities.
 - His teachings included the abolition of all forms of religious practices.

How many of the above statements is/are correct?

 - Only one
 - Only two
 - All three
 - None
- Which of the following challenges does Project VISTAAR aim to address most directly?**
 - The lack of mechanization in Indian agriculture
 - Gaps in the dissemination of accurate and timely agricultural information
 - Fragmentation of landholdings across India
 - Post-harvest infrastructure bottlenecks
- Which of the following is the most distinguishing feature of the Open Data Kit (ODK) platform?**
 - Support for cloud-based data analysis
 - Integration with blockchain for secure data storage
 - Offline data collection capabilities in remote areas
 - Real-time GPS tracking during data submission
- Consider the following statements about satellite-based in-flight internet:**
 - It provides seamless coverage over oceans and remote areas.
 - Signals are transmitted directly from satellites to passenger devices.
 - It is more suitable for long-haul international flights than Air-to-Ground (ATG) in-flight internet systems.

How many of the above statements is/are incorrect?

 - Only one
 - Only two
 - All three
 - None
- Consider the following statements about injectable hydrogels:**
 - They are designed to release drugs in response to specific environmental triggers.
 - They improve drug bioavailability at the tumor site.
 - They require continuous external stimuli for drug release.

How many of the above statements is/are correct?

 - Only one
 - Only two
 - All three
 - None
- Consider the following statements about Project VISTAAR:**
 - It provides access to government schemes related to agriculture and rural development.
 - It focuses on integrating sustainable and climate-resilient farming practices.
 - It is exclusively implemented by the Ministry of Agriculture and Farmers' Welfare.

How many of the above statements is/are incorrect?

 - Only one
 - Only two
 - All three
 - None
- The Ramesh Chand Committee was formed primarily to:**
 - Assess the impact of MSP (Minimum Support Price) on inflation
 - Develop a roadmap for doubling farmers' income
 - Transition from the Wholesale Price Index (WPI) to the Producer Price Index (PPI)
 - Evaluate India's agricultural export policies
- Which of the following is not a feature of the Producer Price Index (PPI)?**
 - Tracks price changes before goods reach consumers
 - Includes services sector
 - Adheres to the System of National Accounts (SNA)
 - Measures changes in consumer purchasing power
- The Torrijos-Carter Treaties primarily aimed to:**
 - Establish joint U.S.-Panama control over the Panama Canal
 - End all U.S. military presence in Panama
 - Establish the Panama Canal as a tax-free trade zone
 - Transfer full control of the Panama Canal to Panama by a specified date
- Consider the following statements about Pradhan Mantri Fasal Bima Yojana (PMFBY):**
 - It provides coverage for yield losses caused by natural calamities.
 - Farmers must pay 10% of the premium for horticultural crops.
 - Satellite technology is used for yield estimation.

Which of the above statements are correct?

 - 1 and 2 only
 - 2 and 3 only
 - 1 and 3 only
 - 1, 2, and 3
- Consider the following statements about incineration:**
 - It involves controlled combustion of waste.
 - It generates energy in the form of heat or electricity.
 - It is effective in reducing wet waste.

Which of the above statements are correct?

 - 1 and 2 only
 - 2 and 3 only
 - 1 and 3 only
 - 1, 2, and 3
- Which of the following accurately distinguishes 6th generation fighter jets from their predecessors?**
 - Introduction of stealth design
 - Incorporation of multi-role capabilities
 - Use of afterburners for supersonic speeds
 - Development of hypersonic capabilities and AI integration

14. Which of the following is a key goal of the “Year of Reforms” initiative in India?

- Achieving hypersonic capability in defense
- Modernizing India's agriculture sector
- Introducing autonomous judiciary reforms
- Streamlining defense procurement processes

15. Consider the following statements about the India Meteorological Department (IMD):

- It is responsible for short-term and long-term weather forecasts.
- It operates under the Ministry of Environment, Forest, and Climate Change.
- It conducts research on monsoon dynamics and climate change.

Which of the above statements are correct?

- 1 and 2 only
- 2 and 3 only
- 1 and 3 only
- 1, 2, and 3

16. Consider the following statements about IMD’s regional centers:

- They are responsible for localized weather forecasts.
- They operate independently from the central IMD headquarters.
- They provide sector-specific weather services for agriculture and aviation.

Which of the above statements are correct?

- 1 and 2 only
- 1 and 3 only
- 2 and 3 only
- 1, 2, and 3

17. What type of waste is least suitable for incineration?

- High-calorific-value plastics
- Wet organic waste
- Hazardous biomedical waste
- Paper and cardboard

18. Consider the following statements about incineration processes:

- It reduces the volume of waste by approximately 90%.
- It completely eliminates the need for landfills.
- It can recover energy in the form of electricity or heat.

Which of the above statements are correct?

- 1 and 2 only
- 1 and 3 only
- 2 and 3 only
- 1, 2, and 3

19. Consider the following statements about nitrate contamination mitigation strategies:

- Crop rotation and cover cropping reduce nitrate leaching.
- Reverse osmosis is an effective method for nitrate removal from drinking water.
- Constructed wetlands increase nitrate levels in water bodies.

Which of the above statements are correct?

- 1 and 2 only
- 2 and 3 only
- 1 and 3 only
- 1, 2, and 3

20. Consider the following statements about the Saraswati River:

- It is mentioned in both the Rigveda and Mahabharata.
- It originates near Kailash Mansarovar in the Himalayas.
- It flows through present-day Gujarat, Haryana, and Rajasthan.

Which of the above statements are correct?

- 1 and 2 only
- 2 and 3 only
- 1 and 3 only
- 1, 2, and 3

21. Consider the following statements regarding a Private Member’s Bill:

- It can only be introduced by MPs from the opposition parties.
- A Private Member’s Bill, if rejected, does not affect the government’s stability.
- Discussion of such Bills is limited to specific days in Parliament.

How many of the above statements is/are correct?

- Only one
- Only two
- All three
- None

22. Consider the following statements about Exercise Surya Kiran:

- It is an annual bilateral exercise between India and Nepal.
- The exercise primarily focuses on maritime security and counter-piracy operations.
- It includes training in jungle warfare and disaster response.

How many of the above statements is/are correct?

- Only one
- Only two
- All three
- None

23. What is the primary reason for a belly landing of Aircraft?

- Pilot error during approach.
- Deliberate decision during routine landings.
- Landing gear malfunction or emergency conditions.
- Structural flaws in the fuselage design.

24. What is the primary focus of Google’s Willow quantum processor?

- Enhancing artificial intelligence applications.
- Increasing data storage capacity.
- Improving quantum error correction and scalability.
- Developing room-temperature quantum computing.

25. Which of the following is true regarding the geographic location of Trinidad and Tobago?

- It is located in the Pacific Ocean near the coast of South America.
- It is a landlocked country in South America.
- It lies between the Indian Ocean and the Arabian Sea.
- It is an island nation in the Caribbean, located in the Atlantic Ocean.

26. Which of the following is the primary goal of NASA’s Kessler Syndrome Mitigation efforts?

- To develop reusable launch vehicles for space missions.
- To regulate international cooperation on space missions.
- To prevent cascading collisions in orbit by limiting debris generation.
- To remove defunct satellites and large debris from orbit.

27. Consider the following statements regarding the Air Independent Propulsion System (AIP):

- AIP technology is exclusively used in nuclear submarines.
- AIP systems carry liquid oxygen to enable underwater operations.
- AIP reduces the detection vulnerability of submarines.
- The AIP system is less compact compared to conventional diesel-electric systems.

How many of the above statements is/are correct?

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

28. Consider the following statements about the procedure for a Private Member’s Bill:

- It requires a one-month notice before introduction in the House.
- The Bill can be referred to a parliamentary committee for detailed examination.
- It must be approved by the President before introduction in Parliament.

Which of the above statements are correct?

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

29. Consider the following statements regarding superconducting qubits in the Willow processor:

1. They operate at near absolute zero temperatures.
 2. They enhance coherence time, enabling longer computations.
 3. They use photonic states for quantum information processing.
- Which of the above statements are correct?
- a) 1 and 2
 - b) 2 and 3
 - c) 1 and 3
 - d) 1, 2, and 3

30. Which of the following is critical for preventing an aircraft from flipping during a belly landing?

- a) Rapid descent with full throttle.
- b) Complete shutdown of aerodynamic surfaces.
- c) Level alignment with wings parallel to the ground.
- d) Full deployment of the landing gear.

31. Consider the following statements regarding Norovirus infections:

1. Norovirus primarily infects individuals through vector-borne transmission from animals.
 2. High-risk locations for Norovirus outbreaks include isolated rural areas with sparse populations.
 3. Norovirus infections occur exclusively in cold climates.
- How many of the above statements is/are correct?
- a) Only one
 - b) Only two
 - c) All three
 - d) None

32. What makes the Fishing Cat a significant species for wetland ecosystems?

- a) It acts as an indicator species for wetland health.
- b) It is the apex predator in all wetland ecosystems.
- c) It exclusively feeds on aquatic plants.
- d) It contributes to pollination in mangrove ecosystems.

33. What was the primary focus of the Carter Doctrine?

- a) Promoting nuclear disarmament in the Middle East
- b) Advocating for peaceful resolution of Cold War conflicts
- c) Establishing diplomatic ties with the Soviet Union post-Afghanistan invasion
- d) Asserting U.S. willingness to use military force to defend its interests in the Persian Gulf

34. Consider the following statements about the H-1B visa:

1. The H-1B visa is applicable only to workers in the IT sector.
 2. Employers must prove a lack of available qualified U.S. workers to hire H-1B visa holders.
 3. H-1B visa holders can work for multiple employers without restrictions.
- How many of the above statements is/are correct?
- a) Only one
 - b) Only two
 - c) All three
 - d) None

35. Consider the following statements regarding Vembanad Lake's significance:

1. It is the largest backwater ecosystem in India.
 2. The Nehru Trophy Boat Race is held annually on its waters.
 3. It is separated from the Arabian Sea by the Western Ghats.
- How many of the above statements is/are correct?
- a) Only one
 - b) Only two

- c) All three
- d) None

36. What is the primary advantage of an Air Independent Propulsion (AIP) system for submarines?

- a) Allows submarines to operate at higher speeds underwater
- b) Reduces the need for conventional fuel in submarines
- c) Improves surface visibility of submarines for better navigation
- d) Enables submarines to operate underwater without surfacing for extended durations

37. What is the primary objective of the World Audio Visual Entertainment Summit (WAVES)?

- a) To address global climate change through media
- b) To regulate intellectual property laws in the entertainment industry
- c) To promote traditional cultural heritage exclusively
- d) To position India as a global leader in the media and entertainment industry

38. Consider the following statements regarding the Parker Solar Probe:

1. The Parker Solar Probe is part of NASA's Living with a Star program.
 2. The probe was designed to explore the magnetic fields of Earth's atmosphere.
 3. The data gathered is crucial for advancing space weather forecasting.
- How many of the above statements is/are correct?
- a) Only one
 - b) Only two
 - c) All three
 - d) None

39. Consider the following statements regarding Scorpene class submarines:

Statement-I: Scorpene class submarines are exclusively nuclear-powered vessels.

Statement-II: They are designed to accommodate Air Independent Propulsion (AIP) systems as upgrades.

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. Where is the Coringa Wildlife Sanctuary located, and what is it known for?

- a) Tamil Nadu; famous for grassland ecosystems
- b) Andhra Pradesh; supports a thriving mangrove ecosystem
- c) Kerala; home to extensive freshwater lakes
- d) Odisha; a critical habitat for Olive Ridley turtles

41. What is the primary objective of the SpaDeX Mission?

- a) Deployment of communication satellites
- b) Establishment of a geostationary orbit for surveillance
- c) Demonstration of rendezvous, docking, and undocking of two spacecraft
- d) Testing solar power generation in space

42. Consider the following statements about UNESCO's National Inventory of Intangible Cultural Heritage:

1. It aims to safeguard cultural expressions endangered by globalization.
 2. It only includes practices that are actively supported by governments.
 3. It requires alignment with principles of sustainable development.
- Which of the above statements are correct?
- a) 1 and 2
 - b) 1, 2, and 3
 - c) 2 and 3
 - d) 1 and 3

43. Consider the following statements about the Upper Siang Multipurpose Project:

1. It aims to generate hydropower and mitigate floods.
 2. It is located near the Dibang River in Assam.
 3. It involves collaboration between National Hydroelectric Power Corporation (NHPC) and North Eastern Electric Power Corporation Limited (NEEPCO).
 4. Its reservoir is designed to maintain river flow during lean seasons.
- Which of the above statements are correct?
- a) 1 and 3
 - b) 2, 3, and 4
 - c) 1, 3, and 4
 - d) 1, 2, and 4

44. The recently discovered Sanskrit inscription in Gilgit, Pakistan-Occupied Kashmir, is associated with which script?

- a) Sharada script
- b) Grantha script
- c) Kharosthi script
- d) Brahmi script

45. Consider the following statements regarding the features of the India-Australia Economic Cooperation and Trade Agreement:

1. The agreement excludes trade in new areas such as turbojets and gold-studded diamonds.
 2. The agreement provides preferential market access for key goods, including textiles, chemicals, and agriculture products.
- Which of the above statements is/are correct?
- a) 1 only
 - b) 2 only
 - c) Both 1 and 2
 - d) Neither 1 nor 2

46. Consider the following statements regarding Metabolic Dysfunction-Associated Steatotic Liver Disease (MASLD):

1. It is caused exclusively by high cholesterol levels.
 2. Advanced MASLD may progress to hepatocellular carcinoma.
 3. MASLD has no connection with cardiovascular diseases.
- How many of the above statements is/are correct?
- a) Only one
 - b) Only two
 - c) All three
 - d) None

47. Which strait connects the Crimea Peninsula to mainland Russia?

- a) Bosphorus Strait
- b) Gibraltar Strait
- c) Dardanelles Strait
- d) Kerch Strait

48. Consider the following statements:

1. BBIN energy grid facilitates trade connectivity between India, Myanmar, and Bangladesh.
 2. India supports e-governance projects in neighboring countries to boost trade facilitation.
 3. The Kaladan Multimodal Project includes both waterways and roadways.
- How many of the above statements is/are correct?
- a) Only one
 - b) Only two
 - c) All three
 - d) None

49. Consider the following statements regarding Renewable Energy Certificates (REC):

Statement-I: India's Renewable Energy Certificates (REC) mechanism allows industries to meet renewable energy compliance without directly sourcing renewable power.

Statement-II: REC mechanisms were introduced to promote renewable energy deployment and ensure market-driven compliance flexibility.

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

50. Consider the following statements regarding India's association with UNESCO:

1. India is a current member of UNESCO's Intangible Cultural Heritage (ICH) Committee.
 2. The Ministry of External Affairs is responsible for preparing nomination dossiers for the UNESCO Representative List.
 3. The Archaeological Survey of India (ASI) is the nodal office for UNESCO's Intangible Cultural Heritage matters.
- How many of the above statements is/are correct?
- a) Only one
 - b) Only two
 - c) All three
 - d) None

