





**Q.12)** The Natural Language Processing (NLP) is a branch of which of the following fields of study?

- a) Artificial Intelligence
- b) Object Oriented Programming language
- c) Space Technology Development
- d) Biodiversity Conservation

**Q.13)** Consider the following statements regarding the recently launched Frontier Technologies Cloud Innovation Center (CIC):

1. It has been developed by the Council of Scientific and Industrial Research.
2. It will enable government stakeholders, start-ups, and local organizations in India to access cloud-based technologies.

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

**Q.14)** Consider the following statements regarding the PM-WANI:

1. It aims to provide public Wi-Fi service through Public Data Offices (PDOs) spread across the country.
2. A nominal license fee is to be charged for providing Broadband Internet through these public Wi-Fi networks.

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

**Q.15)** Which of the following is/are examples of the machine learning (ML)?

1. Digital assistants playing music in response to voice commands
2. Consider the following statements regarding the Government Instant Messaging
3. Self-driving cars

Select the correct answer using the code given below:

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

**Q.16)** Consider the following statement about GIMS:

1. GIMS is the instant messaging platform for Government communication.
2. Like WhatsApp, GIMS employs end-to-end encryption for one-to-one messaging.

Which of the statements given above is/are NOT correct?

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

**Q.17)** Which of the followings is/are the application/s of National Supercomputing Mission?

1. NSM Platform for Genomics and Drug Discovery.
2. Flood Early Warning and Prediction System for River Basins of India.
3. HPC Software Suite for Seismic Imaging to aid Oil and Gas Exploration.

Which of the statements given above is/are correct?

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

**Q.18)** Consider the following statements regarding the Cultivated meat:

1. It is produced by cultivating animal cells directly.
2. It emits more greenhouse gases compared conventional animal agriculture.
3. The cultivated meat will use significantly less land and water compared to conventional animal agriculture.

Which of the statements given above is/are correct?

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

**Q.19)** Consider the following statements regarding Hydroponics

1. Hydroponics is a simple technique in which the plants are grown using water instead of soil.
2. Mineral nutrient solutions are used as water solvent.
3. Plant grow 50% faster than soil has grown under the same condition because of easy access to food and water.

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

**Q.20)** The Shoonya campaign, sometimes seen in news, is primarily associated with:

- a) Promoting spirituality in govt schools and colleges
- b) Promoting Buddhist philosophy abroad
- c) accelerating the deployment of electric vehicles (EVs) for urban deliveries and ride-hailing
- d) Recycling and reusing the plastic waste

**Q.21)** Consider the following statements regarding LiFi work

1. LiFi is a Visible Light Communications system transmitting wireless internet communications at very high speeds.
2. The range of LiFi is greater than WiFi.
3. Li-Fi is unlikely to face any interference from external light sources, hence it is more secured.

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

**Q.22)** Consider the following statements regarding Micro-LED vs OLED

1. OLEDs use tiny sub-pixels made from organic emissive materials, whereas, Micro-LEDs are made with an inorganic LED structure.
2. Compared to OLEDs, Micro-LEDs promise to be much more efficient and brighter, more durable and with a higher color gamut.

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

**Q.23)** Consider the following statements regarding Quantum computing

1. The manipulation of qubits by control devices is at the core of a quantum computer's processing power.
2. Superposition is a quantum mechanical effect that correlates the behavior of two separate things.
3. Decoherence is the ability of qubit to maintain quantum state in the changing environment.

Which of the statements given above are correct?

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

**Q.24)** Consider the following statements regarding Li-ion batteries

1. Li-ion batteries have memory effect.
2. Li-ion battery cells can deliver up to 3.6 Volts, 3 times higher than technologies such as Ni-Cd.
3. Li-ion batteries have low self-discharge rate of around 1.5-2% per month.

Which of the statements given above is/are correct?

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

**Q.25)** Consider the following statements regarding Web 3.0

1. Web 2.0 is the “read-only Web,” whereas, Web 3.0 is the “participative social Web.”
2. Web 3.0’s growth made it possible for apps such as TikTok, Twitter, and YouTube to expand and dominate the online landscape.

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

