

Weekly Quiz (28th Jan- 3rd Feb)

Q1. Consider the following statements about Acid Rain

1. SO₂ (Sulphur Dioxide) and NO_x (Nitrogen Oxide) combine with water and oxygen, forming sulfuric acid (H₂SO₄) and nitric acid (HNO₃).
2. These acids dissolve in water droplets, resulting in the formation of acid rain, snow, or fog.
3. Carbon monoxide reacts with water droplets to form an acid.

How many of the above statements is/are correct?

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

Q2. Consider the following statements about the creation of Brainware

1. It is an innovative computing system that combines brain-like tissue with electronics.
2. It integrates brain organoids and other organs of the human body with microelectrodes, forming an 'organoid neural network (ONN)' that directly incorporates living brain tissue into the computing process.
3. Brain organoids are 3D tissues derived from human embryonic stem cells, simulating the structure and function of the human brain and used to study human brain development and related diseases..

How many of the above statements is/are correct?

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

Q3. Which of the following is conducted by the Wildlife Institute of India (WII) with support from snow leopard range states and conservation partners.?

- a) Snow Leopard Population Assessment in India (SPAI) Program
- b) Snow Leopard Conservancy (SLC)
- c) GSLEP, the Global Snow Leopard & Ecosystem Protection Program
- d) None of the Above

Q4. Which of the following Article of the Indian Constitution empowers the President to summon each House of Parliament and prorogue or dissolve the Lok Sabha?

- a) Article 335
- b) Article 337
- c) Article 85
- d) Article 255

Q5. Consider the following statements about University Grants Commission

- a) The UGC is a statutory body under the UGC Act, 1956.

- b) It is responsible for coordinating, determining, and maintaining standards of higher education.
- c) It provides recognition to Indian universities, disburses funds to recognized universities and colleges, and operates under the Department of Higher Education, Ministry of Education. Introduced to India in 1928, initially as a malaria control measure by the British.

How many of the above given statements are correct?

- a) Only 1 and 2
- b) Only 2 and 3
- c) Only 1 and 3
- d) All are correct

Q6. Consider the following statements about Melanistic Tigers

- 1. Black Tigers are not a distinct species but a rare colour variant of Bengal Tiger.
- 2. The Similipal Tiger Reserve is the only tiger habitat in the world with melanistic tigers.
- 3. The abnormally dark or black coat in such tigers is termed Wideband gene or false coloured.

How many of the above given statements are correct?

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

Q7. Match the following Operational Nuclear Power Plants in India with its location:

Name Of Nuclear Power Station	Location
1. Kakrapar Atomic Power Station	Gujarat
2. Madras Atomic Power Station	Tamil Nadu
3. Narora Atomic Power Station	Uttar Pradesh
4. Kaiga Nuclear Power Plant	Rajasthan

Which of the above given are correctly matched?

- a) Only 1
- b) Only 2
- c) Only 3
- d) All of the Above

Q8. Consider the following statements regarding the Western Equine Encephalitis Virus

- 1. WEE is a rare mosquito-borne disease caused by a virus of the same name, which belongs to the genus Alphavirus of the Togaviridae family, to which the EEE and VEE viruses also belong.
- 2. The main reservoir hosts of EEE and WEE viruses are passerine birds, while equine species act as intermediate hosts.
- 3. PAHO/WHO has issued an alert on the risk of WEE spread across the globe.

How many statements given above is/are incorrect?

- a) Only 1
- b) Only 2
- c) Only 3

d) None of the above

Q9. Consider the following statements about Brain-Computer Interfaces (BCIs)

1. It establishes a direct communication pathway between the human brain and external devices.
2. It helps individuals with paralysis to control devices, prosthetics, or computers with their thoughts.
3. There are invasive (implanted electrodes) and non-invasive methods (EEG, fMRI) of signal acquisition.

Which of the above given statements is/are incorrect?

- a) Only 1
- b) Only 2
- c) Both
- d) None of the Above

Q10. Which of the following Articles of the Indian Constitution lay down the procedure for Interim Budget?

- a) Article 112
- b) Article 116
- c) Article 114
- d) None of the Above

Q11. Consider the following

1. Votes on account
2. Votes of credit
3. Exceptional grants.
4. Supplementary Grant
5. Additional Grant
6. Excess Grant
7. Token Grant

How many of the above given is/are mentioned in the Article 116 of the Indian Constitution?

- a) 1,2,3
- b) 1, 2, 3, 4
- c) 1, 2, 3, 4, 5, 6
- d) 1, 2, 3 and 7

Q12. Consider the following statements about E2E Encryption

1. E2E encryption involves securing specific points through which data is transmitted.
2. When communicating on a messaging app, messages are encrypted during transit to prevent unauthorized access, employing both encryption-in-transit and end-to-end encryption (E2E).
3. It provides protection against unauthorized access, theft, surveillance, and tampering, particularly in the face of escalating cyber threats.

How many of the above given statements is/are incorrect?

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

Q 13. Consider the following statements about Similipal Biosphere Reserve, Odisha

1. It was formally designated a tiger reserve in 1956 and brought under Project Tiger in the year 1973.
2. It has been part of the UNESCO World Network of Biosphere Reserve since 2019.
3. Similipal's royal Bengal tigers have a unique lineage with higher melanin levels, leading to yellow interspersed stripes (pseudo-melanistic).

How many of the above given statements is/are incorrect

- a) Only 1
- b) Only 2
- c) None
- d) All of the above

Q 14. Consider the following statements about Armed Forces Deployment

1. Article 355 grants the State government authority to deploy forces for external aggression and internal disturbance without state request.
2. If a state opposes deployment, the central government can issue directives under Article 355, resorting to Article 360 (President's Rule) if necessary.

How many of the above given statements is/are correct?

- a) Only 1
- b) Only 2
- c) Both
- d) None of the Above

Q 15. Which of the following Article of the Indian Constitution empowers the central government to take all necessary steps to protect a state against internal disturbances and external aggression?

- a) Article 115
- b) Article 356
- c) Article 350 B
- d) Article 355