

Q1. Consider the following statements regarding Black Panthers:

1. Black panthers are melanistic forms of leopards or jaguars.
2. Black panthers are recognized as a separate subspecies within the genus *Panthera*.
3. Melanism provides a camouflage advantage in dense tropical forests.

How many of the statements given above are incorrect?

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

Answer: (a) Only one

Explanation:

- Statement 1 – Correct: Black panthers are melanistic variants of leopards or jaguars.
 - Statement 2 – Incorrect: They are not a separate subspecies.
 - Statement 3 – Correct: Melanism improves camouflage in dense forests.
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Q2. Consider the following rivers:

1. Arkavathi
2. Kabini
3. Bhima
4. Hemavathi

Which of the above are tributaries of the Cauvery River?

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

Answer: (c) 1, 2 and 4 only

Explanation:

- Arkavathi, Kabini and Hemavathi are tributaries of the Cauvery.
 - Bhima is a tributary of the Krishna River.
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Q3. Which one of the following is the most common risk factor for developing Chronic Pulmonary Aspergillosis (CPA)?

- (a) Residence at high altitude
- (b) Prolonged exposure to second-hand smoke
- (c) Long-term use of non-steroidal anti-inflammatory drugs (NSAIDs)
- (d) Previous tuberculosis or other chronic lung diseases

Answer: (d) Previous tuberculosis or other chronic lung diseases

Explanation:

CPA commonly develops in individuals with pre-existing lung damage, especially following tuberculosis or other chronic lung diseases.

Q4. Consider the following statements regarding seas and oceans:

1. Oceans are generally deeper than seas.
2. Seas often have higher salinity than oceans due to greater evaporation and restricted water exchange.
3. Seas and oceans contribute equally to global climate regulation.

How many of the statements given above are correct?

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

Answer: (b) Only two

Explanation:

- Statement 1 – Correct: Oceans are much deeper than seas.
- Statement 2 – Correct: Many seas have relatively higher salinity.
- Statement 3 – Incorrect: Oceans play a much greater role in regulating global climate.

Q5. With reference to the Wetland City Accreditation (WCA) under the Ramsar Convention, consider the following statements:

1. It is a voluntary accreditation programme for cities demonstrating effective wetland conservation.
2. It provides international recognition for sustainable management of urban and peri-urban wetlands.

3. It mandates restoration plans for all urban development projects located near wetlands.

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

Answer: (a) 1 and 2 only

Explanation:

- Statement 1 – Correct: WCA is a voluntary accreditation scheme.
- Statement 2 – Correct: It recognizes cities promoting wise use of wetlands.
- Statement 3 – Incorrect: The scheme does not mandate restoration plans for urban projects.

Q6. Consider the following statements regarding Lala Lajpat Rai:

1. He was associated with the establishment of the Banaras Hindu University (BHU).
2. He was the first Indian leader to demand Purna Swaraj (Complete Independence).
3. He founded the Servants of the People Society to promote social service and national education.

How many of the statements given above are incorrect?

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

Answer: (b) Only two

Explanation:

- Statement 1 – **Incorrect:** BHU was founded by Madan Mohan Malaviya.
- Statement 2 – **Incorrect:** Lala Lajpat Rai was not the first to demand Purna Swaraj.
- Statement 3 – **Correct:** He founded the Servants of the People Society in 1921.

Q7. Consider the following statements regarding nuclear fusion:

1. Nuclear fusion involves the combination of two light atomic nuclei to form a heavier nucleus.
2. Extremely high temperatures are required to overcome electrostatic repulsion between atomic nuclei.

3. Nuclear fusion generates large quantities of long-lived radioactive waste.

How many of the statements given above are correct?

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

Answer: (b) Only two

Explanation:

- Statement 1 – **Correct:** Light nuclei combine to form a heavier nucleus.
- Statement 2 – **Correct:** Very high temperatures are needed to overcome the Coulomb barrier.
- Statement 3 – **Incorrect:** Fusion produces minimal long-lived radioactive waste.

Q8. Consider the following statements regarding the human retina:

- 1. The retina converts light into electrical signals that are transmitted to the brain through the optic nerve.
- 2. Rod cells are responsible for colour vision under bright light conditions.
- 3. Retinal diseases primarily affect the retina rather than the cornea.

How many of the statements given above are correct?

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

Answer: (b) Only two

Explanation:

- Statement 1 – **Correct:** The retina converts light into neural signals.
- Statement 2 – **Incorrect:** Cone cells are responsible for colour vision; rods function in dim light.
- Statement 3 – **Correct:** Retinal diseases affect the retina, not the cornea.

Q9. Consider the following statements regarding ammonia:

- 1. Ammonia is released from both natural and anthropogenic sources.

2. Volcanic eruptions are a major natural source of atmospheric ammonia.
3. Agricultural activities are the largest anthropogenic source of ammonia emissions.

Which of the statements given above are correct?

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

Answer: (d) 1 and 3 only

Explanation:

- Statement 1 – **Correct:** Ammonia is produced through both natural and human activities.
- Statement 2 – **Incorrect:** Volcanoes mainly emit SO₂, CO₂ and other gases, not significant ammonia.
- Statement 3 – **Correct:** Fertilizer use and livestock are the major anthropogenic sources.

Q10. With reference to the SUMAN (Surakshit Matritva Aashwasan) Roadmap 2030, consider the following statements:

1. It adopts a localized and data-driven approach to improve maternal and newborn health outcomes.
2. The Ministry of Health and Family Welfare is the nodal ministry responsible for its implementation.

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

Answer: (c) Both 1 and 2

Explanation:

- Statement 1 – **Correct:** The roadmap emphasizes localized, data-driven interventions.
- Statement 2 – **Correct:** The Ministry of Health and Family Welfare is the implementing ministry.

Q11. Consider the following statements:

Statement-I: The Ayushman Sarathi Chatbot enables beneficiaries to access PM-JAY services without visiting government offices for routine health card management.

Statement-II: The chatbot functions through a secure API-based interface integrated with WhatsApp.

Which one of the following is correct?

- (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, but 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.

Answer: (a)

Explanation:

- Statement-I – **Correct:** The chatbot enables remote access to PM-JAY services.
- Statement-II – **Correct:** WhatsApp-based API integration makes these services accessible digitally, thereby explaining Statement-I.

Q12. Consider the following statements regarding the White-rumped Vulture (*Gyps bengalensis*):

1. It is an Old World vulture native to South and Southeast Asia.
2. It is listed as **Critically Endangered** in the IUCN Red List.
3. It constructs large nests on tall trees, often near human settlements.

How many of the statements given above are correct?

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

Answer: (c) All three

Explanation:

- Statement 1 – **Correct:** It is an Old World vulture native to South and Southeast Asia.
- Statement 2 – **Correct:** It is listed as Critically Endangered.
- Statement 3 – **Correct:** It nests on tall trees, often close to human habitation.

Q13. Consider the following statements regarding Project BRAHMANK:

1. It is a project under the Border Roads Organisation (BRO).
2. It is responsible for developing and maintaining strategic road infrastructure in parts of Arunachal Pradesh and adjoining areas of Assam.
3. It contributes to improving military mobility along the Line of Actual Control (LAC).

Which of the statements given above are correct?

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

Answer: (d) 1, 2 and 3

Explanation:

- Statement 1 – **Correct:** It functions under the BRO.
- Statement 2 – **Correct:** It operates in Arunachal Pradesh and adjoining Assam.
- Statement 3 – **Correct:** It strengthens strategic connectivity towards the LAC.

Q14. Consider the following statements regarding the Improvement Notice mechanism:

1. It has been incorporated into the Legal Metrology Act, 2009.
2. It was introduced through the Jan Vishwas (Amendment of Provisions) Act, 2026.
3. The mechanism abolishes prosecution for all offences under the Legal Metrology Act.

How many of the statements given above are correct?

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

Answer: (b) Only two

Explanation:

- Statement 1 – **Correct:** The mechanism has been incorporated into the Legal Metrology Act.
- Statement 2 – **Correct:** It was introduced through the Jan Vishwas (Amendment of Provisions) Act, 2026.
- Statement 3 – **Incorrect:** Serious violations remain punishable under the law.