



Daily Current Affairs Prelims Quiz 28 -04- 2026

Q1).With reference to the **West Nile Virus (WNV)**, consider the following statements:

1. It is a DNA virus belonging to the family *Flaviviridae*.
2. The *Aedes aegypti* mosquito is the primary vector for its transmission to humans
3. Birds serve as the natural reservoir hosts for the virus.

Which of the statements given above is/are correct?

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

Answer : b

Answer: B

Explanation: > * **Statement 1 is incorrect:** West Nile Virus is a single-stranded **RNA virus**, not DNA.

- **Statement 2 is incorrect:** The primary vector is the **Culex** mosquito, particularly *Culex pipiens*. *Aedes* is primarily associated with Dengue and Zika.

Statement 3 is correct: Birds are the natural reservoir hosts. Humans and horses are considered "dead-end" hosts because they do not develop high enough viral levels in their blood to pass the virus back to biting mosquitoes.

Q2) In the context of infectious diseases, why are humans and horses described as "**dead-end hosts**" for the West Nile Virus?

- a. The virus causes immediate mortality in these hosts, preventing further spread.
- b. These hosts do not develop high enough viral loads (viremia) to infect mosquitoes.
- c. The human immune system completely neutralizes the virus before it can be transmitted.
- d. The virus can only replicate within the avian (bird) respiratory system.

Answer : b

Answer: B

Explanation: A "dead-end host" (or incidental host) is one that can get the

disease but does not develop a high enough level of the virus in the bloodstream to transmit it back to the vector (mosquito). Thus, the transmission cycle stops with them.

Q3).The **Kalinga style of architecture**, a sub-style of the Nagara school, typically consists of specific structural components. In the context of the Konark Sun Temple, which of the following refers to the **Assembly Hall**?

- a. Deula
- b. Nata-Mandira
- c. Jagamohana
- d. Shikhara

Answer : c

Answer: C

Explanation:

- **Jagamohana** is the assembly hall where devotees gather.
- **Deula** refers to the sanctum sanctorum or the main temple structure.
- **Nata-Mandira** is the Dance Hall.
- **Shikhara** is the mountain-like spire (most of which has collapsed at Konark).

Q4) The term "**Photon Valley Corridor**," recently seen in the news, is associated with:

- a. A high-tech semiconductor manufacturing hub in South Korea.
- b. A high-altitude corridor in Chile housing world-class astronomical observatories.
- c. A deep-sea trench in the Pacific explored for bioluminescent organisms.
- d. A region in the Sahara Desert designated for massive solar power plants.

Answer : b

Answer: B

Explanation: The "Photon Valley" refers to the high-altitude region in the Atacama Desert, Chile, where several sophisticated observatories (like Paranal and the upcoming ELT) operate side by side due to the area's exceptional atmospheric clarity.

Q5 With reference to Light Pollution, which was a key reason for the cancellation of a green power project near Paranal in 2026, consider the following:

1. It refers to the excessive and misdirected use of artificial light.
2. It can disrupt the circadian rhythms of wildlife and humans.
3. "Sky glow" refers to the brightening of the night sky over inhabited areas.

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

Answer: D

Explanation:

- **Statement 1 is correct:** This is the basic definition of light pollution.
- **Statement 2 is correct:** Artificial light at night interferes with the biological clocks (circadian rhythms) of various species.
- **Statement 3 is correct:** Sky glow is the most significant form of light pollution for astronomers as it makes it difficult to see faint celestial objects. In January 2026, a green power project was cancelled precisely because its light signature threatened the Paranal Observatory's scientific mission.