

**Q: Consider the following statement regarding West Nile virus:**

1. The virus was first detected in New York City.
2. The virus is now considered endemic in New York State.
3. The virus directly affect the respiratory system in human being.

Choose the correct option from the codes given below:

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

Ans: a

Explanation:

- The West Nile virus was first detected in New York City more than 20 years ago.
- In the last decade, an average of 16 persons per year are diagnosed with the West Nile neuroinvasive disease – a severe illness that targets the brain and the spinal cord, causing muscle weakness and altered mental status.
- The virus is now considered endemic in New York State and shows up in at least parts of it every year in the summer months.
- The West Nile virus, which causes potentially dangerous diseases of the central nervous system in human beings.

**Q: Consider the following statement:**

1. Aedes mosquitoes carry the West Nile Virus.
2. The virus is not contagious.
3. There is no evidence of humans catching the virus directly from birds.

Choose the correct option from the codes given below:

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

Ans: b

Explanation:

- Humans can contract the West Nile virus through an infected mosquito bite.
- The virus is not contagious. However, there is a rare possibility of human-to-human transmission through blood transfusion, organ transplant, or through placenta to the foetus.
- It is usually the Culex species of mosquitoes that carry the West Nile virus.
- It has also been detected in birds. The West Nile virus can make birds like crows and jays sick and eventually kill them. There is no evidence of humans catching the virus directly from birds.
- Currently, there are no vaccines available to treat infection by the West Nile virus. In most cases, the infection heals itself.

**Q: Consider the following statement:**

1. Hospital-acquired diseases cause Klebsiella pneumonia.
2. Klebsiella pneumonia escapes the body's immune system easily.

Choose the correct option from the codes given below:

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

Ans: c

Explanation:

- Klebsiella pneumoniae is one of the pathogens on the World Health Organization's priority list and is a significant cause of hospital-acquired diseases such as pneumonia, bloodstream infections, and infections among ICU patients and newborns.
- Because of its high virulence and antibiotic resistance, the management and treatment of Klebsiella pneumoniae have challenged the medical and scientific community worldwide.
- One of the ways in which Klebsiella pneumoniae escapes the body's immune system, and antibiotics is by producing an extremely sticky and viscous protective covering (hypermucoviscosity) around itself.

**Q: Shahid Behesti terminal is developed at which among the following port?**

- Gwadar Port
- Port of Ormara
- Port of Bandar Abbas
- Chabahar Port

Ans: d

Explanation:

- Union Ports, Shipping and Waterways Minister Sarbananda Sonowal is on a four-day visit to Iran to review the progress on the development of the Shahid Behesti terminal of Chabahar Port, a crucial cog in the potentially game-changing International North South Transport Corridor (INSTC).
- In 2020, India supplied 75,000 tonnes of wheat to Afghanistan as part of humanitarian assistance programme as well as provided for 40,000 litres of Malathion 96% ULV pesticides to Iran via Chabahar port in a concerted effort to mitigate locust threat to agriculture and enhance food security in the region.

**Q: Consider the following statement regarding heat waves:**

1. The heatwaves are categorized on a three-level scale and named in reverse alphabetical order.
2. The Spanish heatwave has been named Vega.

Choose the correct option from the codes given below:

- 1 Only
- 2 Only
- 1 and 2
- None of the above.

Ans: a

Explanation:

- As the world reels under the impact of climate change and heatwaves wreak havoc in several countries, leading to wildfires, drying up of rivers, and unpredictable droughts, scientists have for the first time given it a name.
- Just as cyclones have a name, the Spanish heatwave has been named Joe.
- By categorizing heat waves according to their level of impact on health and naming those that may pose a greater risk, citizens will be able to take effective measures to protect themselves against extreme heat.
- The heatwaves will be categorized on a three-level scale and named in reverse alphabetical order. The first five will be called Zoe, Yago, Xenia, Wenceslao, and Vega.