

Q: Consider the following statement regarding Mythimna Separata:

1. It is a long-distance migratory insect.
2. The pest was first reported as a sporadic pest in Tamil Nadu.
3. A sudden decrease in temperatures with less dryness creates a favourable condition for the pest to increase.

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:

- Mythimna Separata is a typical long-distance migratory insect that is a major, polyphagous pest of grain crops in China and other Asian countries.
- The pest was first reported as a sporadic pest in Tamil Nadu in 1937 and Kerala and Odisha in 1957.
- The pest is known as the ear-head-cutting caterpillar, rice ear-cutting caterpillar, or armyworm.
- It feeds on leaves and can cut off panicles from the base of a crop plant.
- It frequently leaves the field looking like it has been grazed by cattle.
- During an outbreak, the pest multiplies in large numbers and moves in swarms from field to field, like an army, to feed and attack the crops.
- An increase in temperatures with dryness creates a favourable condition for the pest population to increase.

Q: Consider the following statement regarding Kyasanur Forest Disease:

1. It is a non-zoonotic disease.
2. It is also known as “monkey disease/monkey fever”.
3. It is transmitted through the bite of ticks and bonnets.

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:

- Kyasanur Forest Disease is a zoonotic disease.
- The disease was first reported in Kyasanur Forest of Karnataka, in 1957, hence it is known as Kyasanur Forest disease (KFD).
- It is also known as “monkey disease/monkey fever” because of its association with monkey deaths.
- This virus has spread along the entire stretch of the Western Ghats region, which also includes Maharashtra, Kerala, Tamil Nadu and Goa.
- Sudden onset of high-grade fever, prostration, nausea, vomiting, diarrhoea and occasionally neurological & haemorrhagic manifestations.
- It is transmitted through the bite of ticks and bonnets, and black-faced langur monkeys are highly susceptible to the infection. They play a significant role in the spread of the virus in the human population.

Q: Consider the following statement regarding AGNI Initiatives:

1. It aims to provide a platform for Ayurveda practitioners.
2. It promotes the culture of reporting evidence-based practise among Ayurveda practitioners.

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:

- Recently, the Central Council for Research in Ayurveda Sciences (CCRAS), Ministry of Ayush, launched the “Ayurveda Gyan Naipunya Initiative” (AGNI) for physicians practising in the field of Ayurveda.
- To provide a platform for Ayurveda practitioners to report their innovative practises and experiences in various disease conditions, along with promoting the culture of evidence-based practise among Ayurveda practitioners.
- To promote the culture of reporting evidence-based practise among Ayurveda practitioners.

Q: Consider the following statement regarding Deepor Beel:

1. It is a perennial freshwater lake located in Assam.
2. It was recognised as a Ramsar Site in 2002.
3. It is a staging site on migratory flyways.

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: d

Explanation:

- Deepor Beel is a perennial freshwater lake located 10 km southwest of Guwahati city, Assam.
- It is a permanent freshwater wetland in a former channel of the Brahmaputra River.
- It covers an area of 40.14 sq. km and varies in depth from approximately 4 m to 1 m depending on the season (monsoon or dry season).
- Its basin is drained by a system of rivulets and hill streams that connect the neighbouring hills and the forests to the river Brahmaputra through an outlet called the Khanajan.
- It was recognised as a Ramsar Site in 2002 and as an Important Bird and Biodiversity Area (IBA) in 2004. It is the only Ramsar site in the state of Assam.
- It is a staging site on migratory flyways, and some of the largest concentrations of aquatic birds in Assam can be seen, especially in winter.

Q: Consider the following statement regarding 16 Psyche:

1. It is currently orbiting the Sun between Mars and Jupiter.
2. It is made up of gold, silver, and nickel deposits, making it metal-rich.
3. It is also the third largest asteroids in our solar system.

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:

- 16 Psyche is currently orbiting the Sun between Mars and Jupiter.
- It was discovered in 1852 by the Italian astronomer Annibale de Gasparis.
- It is made up of gold, silver, and nickel deposits, making it metal-rich.
- According to NASA, it could be worth more than Earth's economy put together.

- The outer surface of this asteroid is nickel-rich, which resembles an early planet's core.
- It is also one of the biggest asteroids in our solar system-279-km across at its widest point.