

**Q: Consider the following statement regarding Hydroponics Farming:**

1. It is a viable alternative to traditional farming methods for soil less cultivation for enhancing productivity and water use efficiency.
2. At present, this technology is mostly confined to urban farming, rooftop gardening and commercial farming.
3. It is soilless production of vegetables, using cocopeat as a substrate.

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:

- Hydroponics is a viable alternative to traditional farming methods for soil less cultivation for enhancing productivity and water use efficiency.
- Hydroponics is a new concept in India and gaining popularity among entrepreneurs and innovative farmers, who are looking for sustainable and efficient ways to grow crops.
- At present, this technology is mostly confined to urban farming, rooftop gardening and commercial farming.
- Cocoponics” or the Soilless production of vegetables, using cocopeat as a substrate, which has been found to be comparatively more successful in many vegetable crops.

**Q: Consider the following statement regarding Legionnaire’s disease:**

1. It is a severe form of Tuberculosis.
2. The most common form of transmission is inhalation of contaminated aerosols from contaminated water.
3. This bacterium is found in lakes and ponds, but they can also develop in tanks and other water systems.

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:

- Legionnaire’s disease is a severe form of pneumonia — lung inflammation usually caused by infection. It's caused by a bacterium known as legionella.
- This bacterium is found in lakes and ponds, but they can also develop in tanks and other water systems.
- The most common form of transmission of Legionella is inhalation of contaminated aerosols from contaminated water.
- The main symptoms are fever, chills, headache, malaise and muscle pain (myalgia).
- Treatments exist, but there is no vaccine currently available for Legionnaires’ disease.

**Q: Consider the following statement regarding United Nations Population Fund:**

1. It is an international development agency to support the execution of projects and programmes in the area of population and sexual and reproductive health.
2. It was earlier known as United Nations Fund for Population Activities.

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:

- United Nations Population Fund is an international development agency created in 1968 to support the execution of projects and programmes in the area of population and sexual and reproductive health.
- Its mission is to deliver a world where every pregnancy is wanted, every childbirth is safe and every young person's potential is fulfilled.
- In 1987, it was officially renamed as the United Nations Population Fund but the original abbreviation UNFPA (United Nations Fund for Population Activities) was retained.

**Q: Consider the following statement regarding Indian Flying Fox bat:**

1. It is one of the largest bats in the world.
2. It is a keystone species causing seed dispersals of many plants in tropical systems.
3. These bats are endemic to South Central Asia, found from Pakistan and China to the Maldives Islands.

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:

- Indian Flying Fox bat is a species of flying fox native to the Indian subcontinent. It is one of the largest bats in the world.
- The nectar and fruit-eating flying fox (*Pteropus giganteus*) is generally considered vermin as they raid orchards.
- It is a keystone species causing seed dispersals of many plants in tropical systems.
- The Indian flying fox is so called due to its unique, fox-like appearance: reddish-brown coat, characteristically long snout as well as large eyes. And indeed, this animal resembles a little fox with wings.
- These bats are endemic to South Central Asia, found from Pakistan and China to the Maldives Islands.

**Q: Consider the following statement regarding Vitamin K:**

1. It helps to make various proteins that are needed for blood clotting and the building of bones.
2. It is found throughout the body, including the liver, brain, heart, pancreas, and bone.
3. It reaches toxic levels in the body with high intakes.

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:

- Vitamin K helps to make various proteins that are needed for blood clotting and the building of bones. Vitamin K is found throughout the body, including the liver, brain, heart, pancreas, and bone.
- It is broken down very quickly and excreted in urine or stool. Because of this, it rarely reaches toxic levels in the body even with high intakes, as may sometimes occur with other fat-soluble vitamins.