

Q: Consider the following statement regarding White-Rumped Vulture:

1. They are found generally near human habitations.
2. Their population declined rapidly due to the result of feeding on carcasses of animals treated with the veterinary drug diclofenac.
3. They are listed as an endemic species in 2010.

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 White-Rumped Vulture was last sighted in Nepal's Tanahun district and was found in a weakened condition as it was starving for want of food.
- The white-rumped vulture was listed as a critically-endangered species in 2000 as its population declined rapidly, primarily as a result of feeding on carcasses of animals treated with the veterinary drug diclofenac.
- White-rumped vultures, found generally near human habitations, were very common in the Indian subcontinent, besides Myanmar, Thailand, Laos, Cambodia, and southern Vietnam.

Q: Consider the following statement:

1. India intent to increase the share of renewable energy of its major ports through nuclear powered energy.
2. The Maritime Vision Document 2030, is a 10 Year blueprint on India's vision of a sustainable Maritime sector and vibrant blue economy.
3. India has been selected as the first country under the IMO Green Voyage 2050 project.

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:

- India intends to increase the share of renewable energy to 60% of the total power demand of each of its major ports from a present share of less than 10%. This will be through solar and wind-generated power.
- The ports have also aimed to reduce Carbon emissions per ton of cargo handled by 30% by 2030.
- The Maritime Vision Document 2030, released by Prime Minister is a 10 Year blueprint on India's vision of a sustainable Maritime sector and vibrant blue economy.
- India has been selected as the first country under the IMO Green Voyage 2050 project to conduct a pilot project related to Green Shipping.

Q: Consider the following statement:

1. Bihar is the fourth state in the country to have a bird ringing station.
2. Rings are placed on the legs of the birds to study their migration pattern.

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:

- Bihar is the fourth state in the country to have a bird ringing (tagging) station.
- Rings are placed on the legs of the birds to study their migration pattern, mortality and territoriality.
- The Bhagalpur bird ringing station saved a Mongolian Pallas's fish eagle in October 2021.
- The vulture is under observation at Bird Ringing and Monitoring Station in Bhagalpur, and will be released after a few days.

Q: Consider the following statement regarding truck launched drone developed by Taiwan:

1. They are designed to detect airborne, waterborne, grounded radar, and electromagnetic systems through their emissions.

2. The anti-radiation suicide drone had a maximum flight time.
3. Its range allows it to target seaborne, coastal, and inland Chinese radar 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: d

Explanation:

- The truck-launched drones are designed to detect airborne, waterborne, grounded radar, and electromagnetic systems through their emissions and strike.
- The anti-radiation suicide drone had a maximum flight time of over five hours and will be able to strike targets 1,000 kms away.
- Its range allows it to target seaborne, coastal, and inland Chinese radar systems.
- The drone weighs 6 kgs (13 pounds) and is 1.2 meters (4 feet) long and 2 meters (6.56 feet) wide.
- It finds the target with an electro-optical or infrared payload and selects them via an 'intelligence object detection system'.
- The drone hovers over a target for several hours until it is activated, swooping down at a speed of 600 km (373 miles) per hour to crash into it.
- It is possible to deploy 12-drone clusters of the Chien Hsiang, which can take flight without a runway.

Q: Consider the following statement:

1. Invasive alien species are a severe threat to biodiversity.
2. North African Sharptooth catfish is not an invasive alien species.

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: a

Explanation:

- Invasive alien species are a severe threat to biodiversity, causing local extinction of native species and impacting ecosystem services, human livelihood, economy, and health.
- The North African Sharptooth catfish is one such species that was illegally introduced in India for aquaculture purposes. Now the species has invaded most freshwater ecosystems.