

**Q: Consider the following statement regarding Farlowichnus rapidus:**

1. It was a very fast reptile.
2. It lived during the early Cretaceous period.
3. The new species of dinosaur was a herbivorous animal.

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:

- Farlowichnus rapidus was a new species of dinosaur, small carnivorous animal about the size of a modern-day seriema bird, or about 60-90 cm (2-3 feet) tall.
- It was a very fast reptile that ran across the ancient dunes.
- The fossilized dinosaur "trackways", were first found in the 1980s by Italian priest and palaeontologist Giuseppe Leonardi
- It lived during the early Cretaceous period.

**Q: Consider the following statement regarding Sangai:**

1. It is subspecies of deer that is critically endangered to Mizoram.
2. It is also known as dancing deer.
3. It is found only in Keibul Lamjao National Park

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:

- Sangai is subspecies of Eld's deer that is endemic to Manipur.
- It also has immense cultural relevance to Manipur.
- It is found only in Keibul Lamjao National Park; the largest single mass of phumdi is in Loktak Lake – in Manipur's Bishnupur district.
- It is a medium-sized deer with uniquely distinctive antlers and extremely long brow tines, which form the main beam.
- The forward protruding beam appears to come out from the eyebrow, hence called the brow-antlered deer.
- It has a dark reddish-brown winter coat, which turns paler in summer.
- The deer walks on the hind surface of its pasterns with mincing hops over floating foliage and is hence also called the Dancing Deer.

**Q: Consider the following statement regarding Credit Guarantee Trust for Micro and Small Enterprises (CGTMSE) Scheme:**

1. It is a joint set up by MSME and SIDBI.
2. It is instrumental in providing guarantee cover to collateral facility.

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:

- Credit Guarantee Trust for Micro and Small Enterprises (CGTMSE) Scheme was launched in 2000.
- The corpus of CGTMSE is being contributed by the Government of India and the Small Industries Development Bank of India (SIDBI) in the ratio of 4:1.
- Credit Guarantee Fund Trust for Micro and Small Enterprises (CGTMSE) is jointly set up by the Ministry of Micro, Small, & Medium Enterprises (MSME), the Government of India, and the Small Industries Development Bank of India (SIDBI) to catalyse the flow of institutional credit to Micro & Small Enterprises (MSEs).
- CGTMSE has been instrumental in providing guarantee cover to collateral and/or third-party guarantee-free credit facilities extended by eligible Member Lending Institution [MLIs] to MSEs.

**Q: Consider the following statement regarding Deepfakes:**

1. It is a compilation of artificial images and audio put together with machine-learning algorithms.
2. The term combines the deep learning concept with something fake.
3. It is difficult to identify as false.

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:

- Deepfakes are a compilation of artificial images and audio put together with machine-learning algorithms to spread misinformation and replace a real person's appearance, voice, or both with similar artificial likenesses or voices.
- The term "deepfake" combines the deep learning concept with something fake.
- It can create people who do not exist, and it can fake real people saying and doing things they did not say or do.
- The origin of the word "deepfake" can be traced back to 2017, when a Reddit user with the username "deepfakes", posted explicit videos of celebrities.
- Deep fakes differ from other forms of false information by being very difficult to identify as false.

**Q: Consider the following statement regarding Radio Galaxy:**

1. They are radio luminous galaxies.
2. They are much bigger than most of the other galaxies in the universe.
3. Radio galaxies are driven by thermal emissions.

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:

- Radio Galaxies, also known as radio-luminous galaxies or radio-loud galaxies, are a particular type of active galaxy that emits more light at radio wavelengths than at visible wavelengths.
- These happen through the interaction between charged particles and strong magnetic fields related to supermassive black holes at the galaxies' centre.
- Radio galaxies are driven by non-thermal emissions.
- They are much bigger than most of the other galaxies in the universe.
- The first radio galaxy to be discovered, and still the brightest, is called Cygnus A.