

Q: Consider the following statement regarding INDIAai:

1. It is the National artificial intelligence Portal of India.
2. It is the single central knowledge hub on artificial intelligence and allied fields.
3. It is an initiative by the Ministry of Electronics and IT (MeitY) only.

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:

- INDIAai is the National artificial intelligence Portal of India which was launched on 28th May 2020.
- It is a knowledge portal, research organisation, and an ecosystem-building initiative.
- It stands to unite and promote collaborations with various entities in India's AI ecosystem.
- It is a joint initiative by the Ministry of Electronics and IT (MeitY), National e-Governance Division (NeGD) and NASSCOM.
- It is the single central knowledge hub on artificial intelligence and allied fields for aspiring entrepreneurs, students, professionals, academics, and everyone else.

Q: Consider the following statement regarding Millipede:

1. They are member of the annelida class.
2. Their bodies are split into a number of segments.
3. It is a detritivore.

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:

- Millipede are member of the arthropod class Diplopoda.
- They are cylindrical or slightly flattened invertebrates.
- The word "millipede" translates to "a thousand feet"—but while millipedes have many feet, none of them quite have a thousand.
- Their bodies are split into a number of segments, and each segment has two sets of legs that attach to the body's underside.
- It is a detritivore, which means that it eats dead organic matter in the earth like damp wood pieces, decayed leaves, and other materials that naturally exists in their moist habitat underground.

Q: Consider the following statement regarding Tuvalu:

1. It's an island country in the west-central Pacific Ocean.
2. It is composed of nine small coral islands.

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:

- Tuvalu was formerly called as the Ellice Islands.
- It's an island country in the west-central Pacific Ocean, and sits around halfway between Hawaii and Australia.
- Its capital is Funafuti
- Its neighbours include Kiribati, to the north, and Fiji, to the south.
- It is composed of nine small coral islands scattered in a chain lying approximately northwest to southeast

Q: Consider the following statement regarding Markarian 421:

1. It is a supermassive black hole firing a jet of high-energy particles aimed directly at Earth.
2. It is located in the constellation Ursa Major.
3. Black hole have a mass greater than about 50,000 times the mass of our sun.

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:

- Markarian 421 is a supermassive black hole firing a jet of high-energy particles aimed directly at Earth.
- It is about 400 million light-years away from the earth
- It is located in the constellation Ursa Major.
- Black hole have a mass greater than about 50,000 times the mass of our sun.
- These black holes are far too large to have formed from the gravitational collapse of a single star.
- These are always found at the centre of a galaxy and almost all galaxies have a supermassive black hole at its centre.

Q: Consider the following statement regarding North Sea:

1. It is bounded by United Kingdom, Norway, Denmark, Germany, the Netherlands Belgium, and France.
2. Kiel Canal connects the North Sea with the Baltic.
3. The North Sea connects the Atlantic Ocean with Pacific Ocean.

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:

- North Sea is a sea in northern Europe and is part of the Atlantic ocean.
- It is bordered by the United Kingdom and Norway to the west, Denmark to the south, Germany, the Netherlands, Belgium, and France to the east, and the Faroe Islands and Norway's Svalbard archipelago to the north.
- The North Sea connects to the Atlantic Ocean via the English Channel in the southwest and the Baltic Sea in the east via the Kattegat and Skagerrak straits.
- The Kiel Canal, one of the world's busiest artificial waterways, connects the North Sea with the Baltic.
- It covers an area of approximately 570,000 square kilometres (220,000 square miles).