

Q: Consider the following statement regarding the evolution of Collegium system:

1. The First Judges case, the court held that the consultation with the CJI should be “full and effective.
2. Third Judges Case in 1998 expanded the judicial collegium to its present composition of the CJI and four of his senior-most judges.
3. The Third Judges case introduced the collegium 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:

- The Three Judges cases saw the evolution of the collegium system. In the First Judges case, the court held that the consultation with the CJI should be “full and effective
- The Second Judges case introduced the collegium system in 1993. It ruled that the CJI would have to consult a collegium of his two senior-most judges in the apex court on judicial appointments. The court held that such a “collective opinion” of the collegium would have primacy over the government.
- It was the Third Judges case in 1998, which was a Presidential reference, that expanded the judicial collegium to its present composition of the CJI and four of his senior-most judges.

Q: Consider the following statement:

1. Belize Barrier Reef is the world’s largest reef system.
2. Corals are marine invertebrates or animals which do not possess a spine.
3. Each coral is called a polyp.

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:

- Australia’s Great Barrier Reef is the world’s largest reef system stretching across 2,300 km and having nearly 3,000 individual reefs. It hosts 400 different types of coral, gives shelter to 1,500 species of fish and 4,000 types of mollusc.
- Corals are marine invertebrates or animals which do not possess a spine. They are the largest living structures on the planet. Each coral is called a polyp and thousands of such polyps live together to form a colony, which grow when polyps multiply to make copies of themselves.
- Corals are of two types: hard corals and soft corals. Hard corals extract calcium carbonate from seawater to build hard, white coral exoskeletons.

Q: Consider the following statement:

1. Corals share a symbiotic relationship with single-celled algae called zooxanthellae.
2. Bleached corals can survive depending on the levels of bleaching.

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:

- Corals share a symbiotic relationship with single-celled algae called zooxanthellae. The algae prepares food for corals through photosynthesis and also gives them their vibrant colouration.
- When exposed to conditions like heat stress, pollution, or high levels of ocean acidity, the zooxanthellae start producing reactive oxygen species not beneficial to the corals.
- So, the corals kick out the colour-giving algae from their polyps, exposing their pale white exoskeleton and leading to coral starvation as corals cannot produce their own food.
- Bleached corals can survive depending on the levels of bleaching and the recovery of sea temperatures to normal levels. Severe bleaching and prolonged stress in the external environment can lead to coral death.

Q: Consider the following statement regarding Combined Maritime Forces (CMF):

1. Pakistan joined this force as an associate partner.
2. India is full member of this force.

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: d

Explanation:

- At the India-US 2+2 in April 2022, India had announced that it would join the Combined Maritime Forces (CMF) as an Associate Partner, which will strengthen cooperation in regional security in the Western Indian Ocean.
- All three commands are co-located at U.S. Naval Support Activity Bahrain. In the immediate neighbourhood, Pakistan is a full member of CMF.

Q: Consider the following statement:

1. Velocity Trimming Module (VTM) inserts the satellite into their desired orbits.
2. GSLV-F10 mission of ISRO was a successful mission.

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:

- The Velocity Trimming Module (VTM), which inserts the satellite into their desired orbits, is being cited as the cause of failure as it did not fire in the terminal stage. The VTM was to fire up for 30 seconds but it was barely ignited for one.
- ISRO had hit upon another loss in 2021 when its GSLV-F10 mission was lost minutes after liftoff.
- ISRO lost the mission just 297.3 seconds after lift-off to a "technical anomaly", which it later said was due to a deviation in performance of the Cryogenic Upper Stage (CUS) of the launch vehicle.