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Daily MCQS- November 2nd

1. With reference to the Coral Reefs, consider the following statements:

1. Only hard corals build reefs.
2. Coral reefs occur in shallow tropical areas where the sea water is clean, clear and warm.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: C

Explanation

- Coral is a living animal.
- Coral has a symbiotic relationship with zooxanthellae microscopic algae which live on corals.
- zooxanthellae assist the coral in nutrient production through its photosynthetic activities . These activities provide the corals with fixed carbon compounds for energy, enhance classification, and mediate elemental nutrient flux.
- There are two types of corals: hard corals and soft corals, such as sea fans and gorgonians.
- Only hard corals build reefs. **Hence, statement 1 is correct.**
- The tissues of corals themselves are actually not the beautiful colors of the coral reefs, but are instead clear (white). The corals receive their coloration from the zooxanthellae living within their tissues.
- Corals occur in shallow tropical areas where the sea water is clean, clear and warm. **Hence, statement 2 is correct.**
- The reef building corals are a symbiotic association of polyps (coral animals) and zooxanthellae (the microscopic algae).

Why in the news?

A new shrimp species were found in the coral reef in the Lakshadweep islands.

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2. Consider the following statements with respect to the appointment of judges to the High Court

1. The judges to the High Court are recommended by the collegium consisting of the Chief Justice of India and two senior most judges of the Supreme court
2. The appointment of High Court judges is made by the Governor of the respective states.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer : A

Explanation:

Statement 1 is correct. The collegium consists of CJI and 2 senior most judges for recommendation of judges to High Courts. For recommendation of name for the Supreme court judges, the collegium consists of CJI and 4 senior most judges.

Statement 2 is incorrect. The appointment is made by the President.

Why in the news?

Collegium system followed in India by the judiciary has been criticised that it not only encroaches on the rights of the States but is also against the idea of a federal structure.

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3. Consider the following statements regarding Rafale aircraft

1. It is a twin-jet fighter aircraft able to operate only from aircraft carrier.
2. It can carry out all combat aviation missions.

Select the correct answer

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Ans : B

Explanation

- **Rafale** is a twin-jet fighter aircraft able to operate from **both an aircraft carrier and a shore base**.
- It is a **fully versatile aircraft** which can carry out **all combat aviation missions** to achieve air superiority and air defence, close air support, in-depth strikes, reconnaissance, anti-ship strikes and nuclear deterrence.

4. Which of the following states share border with Mizoram?

- a) Assam, Tripura and Manipur
- b) Assam, Meghalaya, Tripura and Manipur
- c) Nagaland, Manipur and Assam
- d) Assam, Meghalaya, Manipur and Nagaland

Answer: A

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Why in the news?

INTERVIEW

- There is a border stand-off continuing in Assam-Mizoram border.

MAINS

PRELIMS

5. The term 'sponge city' in the news recently refers to which of the following?

- A city structured and designed to absorb and capture rainwater and utilize it to reduce floods.
- A city that has fallen short of the National Ambient Air Quality Standards (NAAQS) for over five years.
- A city where there is a significant and extensive improvement in the physical, social, and economic infrastructure.
- None of the above

Answer: A

Explanation:

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- A city structured and designed to absorb and capture rainwater and utilize it to reduce floods is referred to as Sponge city.
- The idea of a sponge city is to make **cities more permeable** so as to hold and use the water which falls upon it.
- Sponge cities absorb the rain water, which is then naturally filtered by the soil and allowed to reach urban aquifers. This allows for the extraction of water from the ground through urban or peri-urban wells. This water can be treated easily and used for city water supply.
- In built form, this implies contiguous open green spaces, interconnected waterways, and channels and ponds across neighbourhoods that can naturally detain and filter water.
- The most promising idea that **mitigates flood risk** and provides a pathway to **water security** appears to be the idea of “**sponge cities**”.
- It implies **support for urban ecosystems, bio-diversity and newer cultural and recreational opportunities**.
- These can all be delivered effectively through an urban mission along the lines of the **Atal Mission for Rejuvenation and Urban Transformation (AMRUT), National Heritage City Development and Augmentation Yojana (HRIDAY) and Smart Cities Mission.**

