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DAILY CURRENT QUIZ FOR UPSC

04/12/2024

EXPLANATION

**Qn. 1**

**Answer: (b)** 2 and 3 only

Explanation:

**Statement 1 is incorrect** because ecDNA is not always inherited in a Mendelian fashion. For example, mitochondrial DNA, a type of ecDNA, follows maternal inheritance.

**Statement 2 is correct** as ecDNA is found in prokaryotes (e.g., plasmids in bacteria) and eukaryotes (e.g., mitochondrial DNA in humans).

**Statement 3 is correct as ecDNA often carries oncogenes in cancer cells,** contributing to tumor growth and drug resistance.

**Qn.2**

**Answer: (a)** 1 and 2 only

Explanation:

- Around one-third of India's coastline is affected by erosion, as reported by studies conducted by agencies like the National Centre for Coastal Research (NCCR).
- Climate change, rising sea levels, and human activities such as construction and sand mining exacerbate coastal erosion.
- The **East Coast**, being more low-lying and deltaic, is more vulnerable to erosion compared to the West Coast.

### Qn. 3

**Answer:b)** 1 and 2 only

#### **Explanation:**

**Statement 1 is correct:** India signed and ratified the UNCRPD in 2007, showcasing its commitment to disability rights.

**Statement 2 is correct:** The Rights of Persons with Disabilities Act, 2016, aligns Indian law with the principles of the UNCRPD.

**Statement 3 is incorrect: The UNCRPD does not mandate the establishment of a national authority but encourages states to promote institutional mechanisms for disability rights.**

### Qn. 4

**Answer: a) 2 and 3 only**

#### **Explanation:**

- The Lion-tailed Macaque is endemic to the Western Ghats, not the Eastern Ghats, making **Statement 1 incorrect**.
- It is listed as Endangered on the IUCN Red List due to habitat destruction and low population, making **Statement 2 correct**.
- It inhabits tropical rainforests with a highly restricted range, making **Statement 3 correct**.

5.

- **Answer: b)** 1 and 2 only

#### **Explanation:**

- India has **10 biogeographic zones**, including the Himalayas, Deccan Peninsula, and **Western Ghats**.
- The **Sundarbans**, known for their **mangrove ecosystems**, belong to the **Gangetic Plains biogeographic zone**, not the Coastal zone