

# PRABHA IAS IPS COACHING ACADEMY



## DAILY PRACTICE QUESTIONS

**Q1. Consider the following statements regarding Piton de la Fournaise volcano:**

- 1) It is located on Reunion Island in the western Indian Ocean.
- 2) It is a stratovolcano composed mainly of andesitic lava.
- 3) It is built on the flank of Piton des Neiges volcano.

Which of the statements given above is/are correct?

- A) 1 and 2 only
- B) 1 and 3 only
- C) 2 and 3 only
- D) 1, 2 and 3

**Q2. The term “Exposome” is best described as:**

- A) The genetic mutations acquired during a lifetime
- B) The cumulative environmental exposures affecting health from conception onwards
- C) The epigenetic modifications in human DNA
- D) The global disease surveillance system

**Q3. Leiogalatea samudragiri, recently discovered, is:**

- A) A deep-sea fish species found near the Andaman Sea

# PRABHA IAS IPS COACHING ACADEMY

- B) A new coral species found in the Lakshadweep archipelago
- C) A new species of squat lobster discovered under India's Deep Ocean Mission
- D) A crustacean found in the Bay of Bengal coastal waters

**Q4. Bio-based chemicals differ from conventional chemicals primarily because:**

- 1) They are produced using biological feedstocks.
- 2) They are derived from fossil fuel reserves.
- 3) They are often produced via fermentation or enzymatic processes.

Select the correct answer using the code below:

- A) 1 only
- B) 1 and 3 only
- C) 2 and 3 only
- D) 1, 2 and 3

**Q5. Osteoporosis is characterised by:**

- A) Excessive bone growth leading to stiffness
- B) Degeneration of cartilage in joints
- C) Reduction in bone density increasing fracture risk
- D) Autoimmune destruction of bone marrow

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## Solutions

Q1 – Answer: B

Piton de la Fournaise is on Reunion Island and built on Piton des Neiges.

It is a basaltic shield volcano, not a stratovolcano → Statement 2 is incorrect.

Q2 – Answer: B

Exposome = lifetime cumulative environmental, chemical, biological, and psychosocial exposures.

Q3 – Answer: C

Leiogalathea samudragiri is a new squat lobster species discovered near Lakshadweep under Deep Ocean Mission.

Q4 – Answer: B

Bio-based chemicals use biological feedstocks and fermentation processes.

They are not fossil-fuel derived.

Q5 – Answer: C

Osteoporosis causes loss of bone density and higher fracture risk.