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DAILY PRACTICE QUESTIONS (14/05/2026)

1. With reference to the AI-enabled Weather Forecasting Systems launched by IMD, consider the following statements:

1. The systems provide hyper-local weather forecasts.
2. The “Forecast of Monsoon Advance” provides block-level monsoon forecasts up to four weeks ahead.
3. The “Mithuna” model was downscaled from 12.5 km to 1 km resolution.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

2. Binsar Wildlife Sanctuary is located in:

- (a) Himachal Pradesh
- (b) Uttarakhand
- (c) Arunachal Pradesh
- (d) Sikkim

3. Blue Moon MK1 is best described as:

- (a) A reusable launch vehicle
- (b) An unmanned lunar cargo lander
- (c) A hypersonic cruise missile

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(d) A space station module

4. Infrasound refers to sound waves having frequencies:

(a) Above 20,000 Hz

(b) Between 20 Hz and 20,000 Hz

(c) Below 20 Hz

(d) Equal to 1 Hz only

5. Consider the following statements regarding Valley Fever:

1. It is caused by the *Coccidioides* fungus.

2. It spreads through person-to-person transmission.

3. It is endemic to parts of the Southwestern United States.

Which of the statements given above are correct?

(a) 1 and 3 only

(b) 2 and 3 only

(c) 1 and 2 only

(d) 1, 2 and 3

SOLUTIONS:

Answer: (d) 1, 2 and 3

Solution: The AI-enabled forecasting systems launched by IMD provide hyper-local forecasts. The monsoon forecast offers block-level predictions up to four weeks ahead, and the Mithuna model was downscaled to 1 km resolution.

Answer: (b) Uttarakhand

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Solution: Binsar Wildlife Sanctuary is situated in Almora district of Uttarakhand in the Central Himalayan region.

Answer: (b) An unmanned lunar cargo lander

Solution: Blue Moon MK1, developed by Blue Origin with NASA collaboration, is an unmanned cargo lander designed for lunar missions under the Artemis programme.

Answer: (c) Below 20 Hz

Solution: Infrasound consists of sound waves with frequencies below 20 Hz, which are generally beyond normal human hearing.

Answer: (a) 1 and 3 only

Solution: Valley Fever is a fungal respiratory infection caused by *Coccidioides* fungus found in arid soils. It is non-contagious and endemic to the Southwestern US and parts of Mexico.