Social Science

Practice Test Paper 2

Understanding Society: India and Beyond

(Part 1 | Chapter 3: Atmosphere and Climate)

Class IX

Time Allowed: 45 Minutes | Maximum Marks: 25

General Instructions

1. All 13 questions are compulsory. The paper has four sections: A, B, C and D.
2. Section A - 5 marks; Section B - 8 marks; Section C - 9 marks; Section D - 3 marks.
3. Choose one correct option in Section A. Write clear, relevant answers in Sections B, C and D.
4. Study the images carefully before answering the related questions.

SECTION A

(5 questions × 1 mark = 5 marks)

1. Identify the coloured lights seen above the polar landscape in the photograph.



(A) Aurora
(B) Hailstorm
(C) Monsoon rain
(D) Sea breeze

2. The average height of the troposphere is about:

(A) 80 km
(B) 700 km
(C) 12 km
(D) 50 km

3. If a place receives no rainfall for a long period, its climate is likely to be:

(A) Wet throughout the year
(B) Dry
(C) Unaffected by the lack of rain
(D) Permanently snowy

4. Which transport habit is classified as having a medium impact on a person's carbon footprint?

(A) Using public transport or a carpool
(B) Walking or cycling
(C) Using a private car for short trips
(D) Taking flights more than twice a year

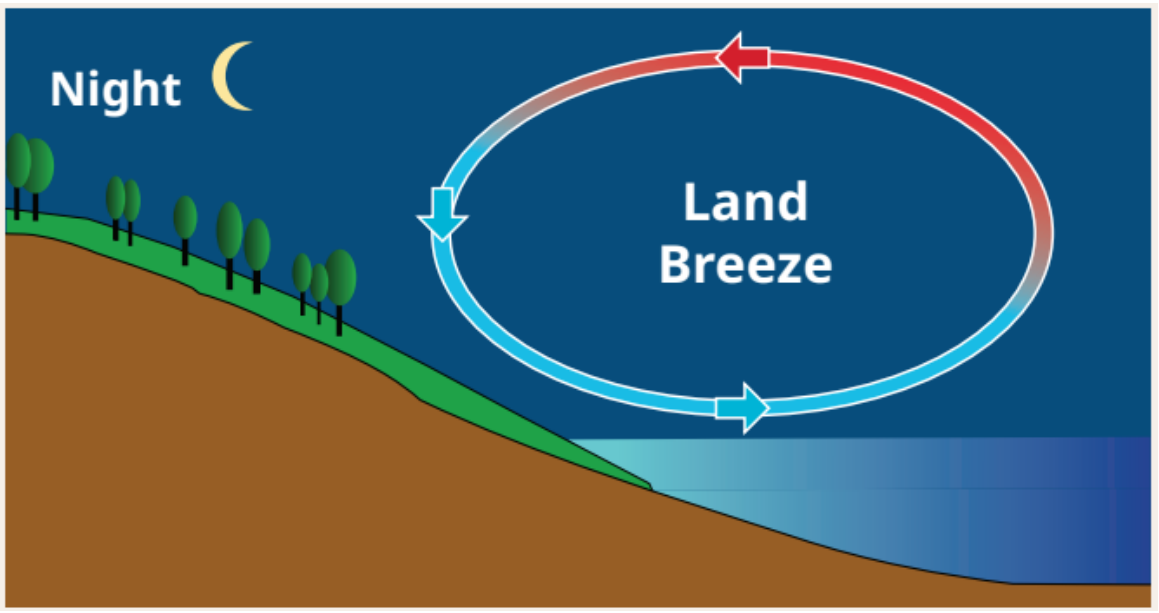
5. Besides gases and water vapour, the atmosphere also contains:

(A) No other material
(B) Only liquid oceans
(C) Only large rocks
(D) Tiny dust particles

SECTION B

(4 questions × 2 marks = 8 marks)

6. Look at the night-time breeze in the image. Explain how cooling changes the pressure pattern and the direction of the wind.



7. Why do clothes take longer to dry on a humid day, and why can a person feel uncomfortable even while sweating?

8. State the general percentage range of water vapour in the atmosphere and explain its role in the water cycle.

9. Does the hottest month occur at the same time across India? Compare the western and southern regions with the northern regions.

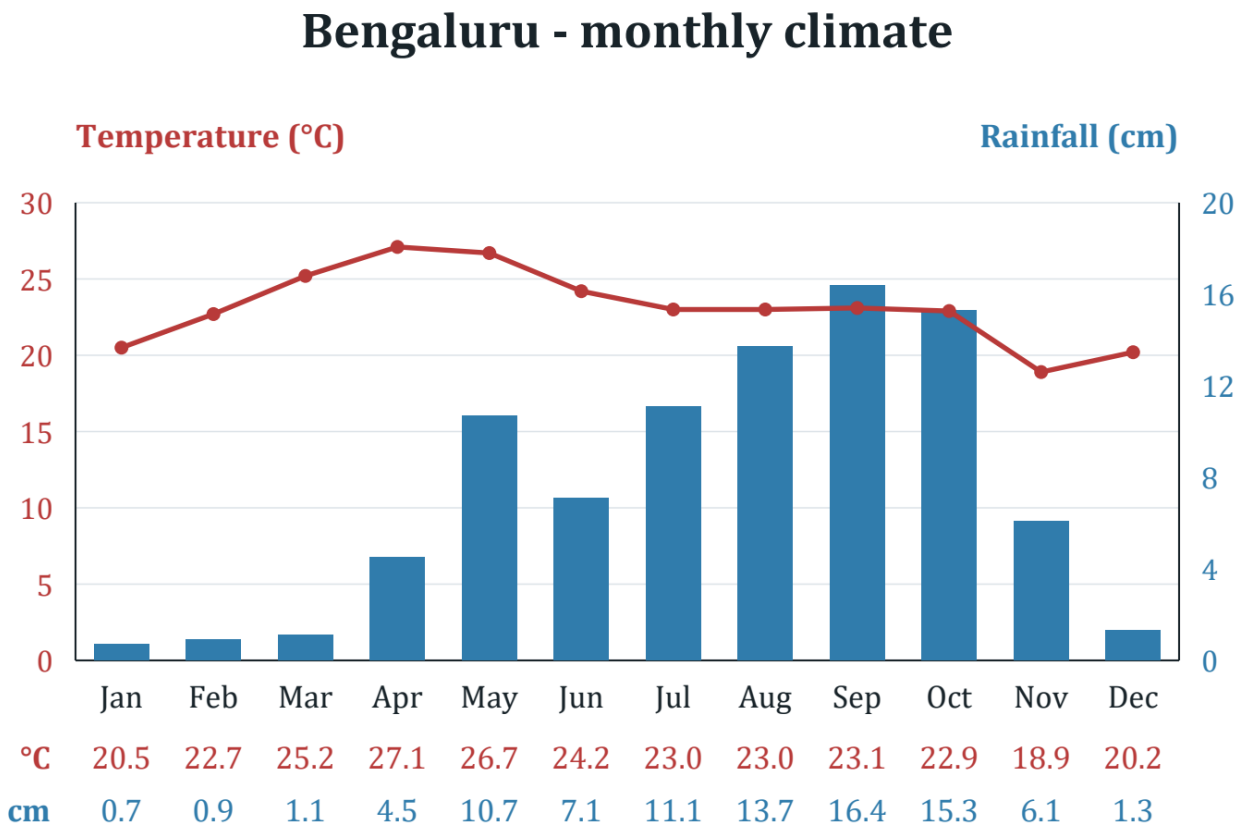
SECTION C

(3 questions × 3 marks = 9 marks)

10. Give three reasons why the troposphere is especially important to life and everyday conditions on Earth.

11. Explain how three natural factors combined to cause severe flooding in Punjab in 2025. Include local rain, western disturbances and rainfall in the hills.

12. Read Bengaluru's graph. Give one counterexample to a steady rise in rainfall from January to September, describe the trend from June to September, and calculate how much wetter September is than January.



SECTION D

(Application Based Question - 3 marks)

13. Imagine two nearby regions. In region A, warm air rises from the surface. In region B, cooler, heavier air sinks. Use these conditions to predict the pressure and weather.

(i) Which region develops lower surface pressure?

(ii) In which direction will surface air move between B and A?

(iii) What kind of sky and weather is usually associated with region A?