Understanding the Weather

Standard difficulty · 20 questions · 40 marks · Time: 37 minutes

Name: _____ Date: _____ Score: ____ / 40

Write full answers in Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. Weather is:

(a) the shape of the land
(b) the amount of salt in the sea
(c) the average conditions over 30 years
(d) the state of the atmosphere at a particular time and place

2. A rain gauge measures:

(a) rainfall **(b)** humidity **(c)** wind speed **(d)** wind direction

3. In which unit is rainfall usually measured?

(a) kilometres per hour (km/h) **(b)** per cent (%)
(c) degrees Celsius (°C) **(d)** millimetres (mm)

4. Which element of weather does this show: sweat that will not dry?

(a) humidity **(b)** air pressure **(c)** temperature **(d)** wind

5. In Kanpur, the highest temperature one day was 33 °C and the lowest was 23 °C. What was the temperature range?

(a) 56 °C **(b)** 10 °C **(c)** 28 °C **(d)** 12 °C

6. On a day with a highest temperature of 45 °C and a lowest of 35 °C, what is the mean (average) temperature?

(a) 43 °C **(b)** 10 °C **(c)** 80 °C **(d)** 40 °C

7. A rain gauge recorded this rain in one week (mm): 0, 0, 47, 3, 40, 29, 0. What was the total rainfall?

(a) 47 mm **(b)** 129 mm **(c)** 119 mm **(d)** 109 mm

8. Normal air pressure at the coast is about 1,013 mb. A barometer reads 976 mb before a storm. By how many millibars has it fallen?

(a) 37 mb **(b)** 47 mb **(c)** 1,989 mb **(d)** 976 mb

Section B — Short answer — 8 × 2 = 16 marks

9. Name the five main elements of weather.

10. What does each instrument measure? (a) wind vane (b) anemometer

11. Give the unit used for each: (a) wind speed (b) temperature

12. One day the highest temperature was 40 °C and the lowest 32 °C. Find (a) the range and (b) the mean temperature.

13. Change 10 °C into degrees Fahrenheit. (°F = °C × 9 ÷ 5 + 32)

14. Rainfall recorded on four days: Sunday 12 mm, Monday 33 mm, Friday 17 mm, Saturday 10 mm. (a) What was the total? (b) Which day was the wettest?

15. Name the element of weather in each: (a) sweat that will not dry (b) hailstones on the roof

16. An anemometer shows a wind speed of 80 km/h. How far would this wind carry a balloon in 6 hours at that speed?

Section C — Longer answers — 4 × 4 = 16 marks

17. Describe five instruments in a weather station and what each measures.

18. Temperatures for three days: Wednesday max 37 °C, min 25 °C; Friday max 44 °C, min 32 °C; Thursday max 43 °C, min 35 °C. (a) Find the range for each day. (b) Which day had the largest range? (c) Find Wednesday's mean temperature.

19. Match each with its measurement: (a) barometer (b) hygrometer (c) thermometer. Choose from: air pressure; humidity; temperature.

20. A barometer read 1,013 mb in the morning and 987 mb by evening. (a) How much did the pressure fall? (b) Is it below 1,000 mb? (c) What kind of weather might be coming, and what should people do?

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Answer key

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Q	Answer	Working
1	**(d) the state of the atmosphere at a particular time and place**	—
2	**(a) rainfall**	—
3	**(d) millimetres (mm)**	—
4	**(a) humidity**	—
5	**(b) 10 °C**	33 − 23 = 10
6	**(d) 40 °C**	(45 + 35) ÷ 2 = 40
7	**(c) 119 mm**	0 + 0 + 47 + 3 + 40 + 29 + 0 = 119
8	**(a) 37 mb**	1,013 − 976 = 37
9	**Temperature, atmospheric pressure, wind, precipitation and humidity.**	—
10	**(a) wind direction (b) wind speed**	—
11	**(a) kilometres per hour (km/h) (b) degrees Celsius (°C)**	—
12	**(a) 8 °C (b) 36 °C**	40 − 32; (40 + 32) ÷ 2
13	**50 °F**	10 × 9 ÷ 5 = 18; + 32
14	**(a) 72 mm (b) Monday**	12 + 33 + 17 + 10
15	**(a) humidity (b) precipitation**	—
16	**480 km**	80 × 6
17	**Thermometer: temperature; rain gauge: rainfall; barometer: air pressure; wind vane: wind direction; anemometer: wind speed (also hygrometer: humidity).**	—
18	**(a) Wednesday 12 °C, Friday 12 °C, Thursday 8 °C (b) two days tie (c) 31 °C**	—
19	**(a) air pressure (b) humidity (c) temperature**	—
20	**(a) 26 mb (b) Yes (c) A falling pressure often means a depression or storm; people should follow IMD warnings and stay safe.**	1,013 − 987

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