Chapter - 4

Atmosphere

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Ι.	L.	noo	se ti	1e r)est	ans	wer.

I. Choose the best answer.
Question 1. The atmosphere is divided into layers. (a) four (b) five (c) six (d) seven
Answer: (b) five
Question 2. The Earth receives heat energy from the (a) Moon (b) Mars (c) Sun (d) Venus
Answer: (c) Sun
Question 3. World Meteorological Day (a) March – 20 (b) March – 21 (c) March – 22 (d) March – 23

Answer:

(d) March - 23

Question 4. The study of weather is called (a) Meteorology (b) Ecology (c) Archaeology (d) Sociology
Answer: (a) Meteorology
Question 5. Zone located in between Tropic cancer and Tropic of Capricorn is zone. (a) Temperate (b) Subtropical (c) Cold (d) Torrid
Answer: (d) Torrid
Question 6 is used to measure pressure in the air. (a) Barometer (b) Thermometer (c) Anemometer (d) Wind vane
Answer: (a) Barometer
Question 7. Monsoon is derived from the word. (a) Greek (b) Arabian (c) English (d) Latin
Answer: (b) Arabian

Question 8. Vertical cloud is called (a) Cirrus cloud (b) Stratus clouds (c) Cumulus clouds (d) Nimbus clouds
Answer:
(d) Nimbus clouds
Question 9 clouds give convectional rainfall. (a) Cirrus b) Stratus (c) Cumulus (d) Nimbus
Answer: (c) Cumulus
Question 10. Statement I – The instrument used to measure wind direction in wind vane. Statement II – Light travels faster than sound. (a) Statement I is True, II is False (b) Statement I, II are True (c) Statement I,II are False (d) Statement I is False, II is True
Answer: (b) Statement I,II are True
II. Fill in the blanks.
Question 1. The instrument used to measure heat
Answer: Calorimeter

Question 2. The imaginary lines drawn parallel to the surface of the earth is
Answer: Latitudes
Question 3. Sea breeze blows from in the evening.
Answer: sea to land
Question 4 are rain clouds.

Answer:

Nimbus

III. Match the following

- 1. Cirrus clouds (a) Grey sheet
- 2. Stratus clouds (b) Storm cloud
- 3. Cumulus clouds (c) do not give rain
- 4. Nimbus clouds (d) Looks like Puffy White cotton

Answer:

- 1. (c)
- 2. (a)
- 3. (d)
- 4. (b)

IV. State True/ False.

Question 1.

All weather changes occur in the Troposphere.

Answer: True
Question 2. Latitudes and Longitudes help us to locate a country.

Answer:

True

Question 3.

Atmosphere gets heated by conduction than solar radiation.

Answer:

True

Question 4.

The main reason for the change of wind direction is to Earth's rotation.

Answer:

True

Question 5.

Cyclone moves in anti-clockwise direction.

Answer:

True

V. Answer the following.

Question 1.

What is climate?

Answer:

The word climate is derived from the Greek word called climate. Climate is the average weather condition of a vast area over more than 30 years.

Question 2.

Name the atmospheric layers.

Answer:

- Troposphere
- Stratosphere
- Mesosphere
- Thermosphere
- Exosphere.

Question 3.

Write a short note on the Nimbus clouds.

Answer:

Nimbus clouds appears as dark or grey in color. It gives heavy rainfall. It's called vertical or rain clouds.

Question 4.

Write a short note on the orographic rainfall.

Answer:

When the moisture laden winds from the sea rises as it moves over a mountain range, it becomes cool and causes heavy rainfall. The opposite side of the mountain is called Leeward side. It receives very little rainfall.

VI. Answer in detail:

Question 1.

Write about Jet Streams.

Answer:

- Air currents in the upper layers of atmosphere is known as Jet streams.
- It could determine the arrival and departure of monsoon winds in India.

Question 2.

Explain the types of winds.

Answer:

Wind:

The air moves horizontally from high pressure to low pressure area is called

wind.

Different types of wind

Planetary winds: These winds move in the same direction throughout the year with the rotation of the earth.

Monsoon winds: They are seasonal winds.

Types:

- South west monsoon winds.
- North east monsoon winds.
- Monsoon rains.

Sea breeze: Wind blows from sea to land during the evening.

Land breeze: Wind blows from land to sea in the morning.