

CBSE Class–VII Social Science
NCERT Solutions
GEOGRAPHY Chapter 4
Air

Q1. Answer the following questions.

- (i) What is atmosphere?
- (ii) Which two gases make the bulk of atmosphere?
- (iii) Which gas creates greenhouse effect in the atmosphere?
- (iv) What is weather?
- (v) Name three types of rainfall.
- (vi) What is air pressure?

Answers: (i) A huge blanket of air that surrounds our earth is called atmosphere.

The atmosphere has the following layers :

- (a) Troposphere.
- (b) Stratosphere
- (c) Mesosphere
- (d) Thermosphere
- (e) Exosphere

Out of these atmospheric layers, Troposphere is the most important layer of the atmosphere, which directly supports life on this planet.



Our Atmosphere and its Layers

(ii) (a) Nitrogen (b) Oxygen.

(iii) Carbon dioxide.

(iv) Weather is the hour-to-hour, day to day conditions of the atmosphere.

(v) (a) The convectional rainfall

(b) The orographic rainfall

(c) The cyclonic rainfall.

(vi) Air pressure is defined as the pressure exerted by the weight of air on the earth's surface.

Q2. Tick the correct answer:

(i) Which of the following gases protects us from harmful sun rays?

(a) Carbon dioxide (b) Nitrogen (c) Ozone.

Ans: (c) Ozone.

(ii) The most important layer of the atmosphere is.

(a) Troposphere (b) Thermosphere. (c) Mesosphere

Ans: (a) Troposphere.

(iii) Which of the following layers of atmosphere free from clouds?

(a) Troposphere (b) Stratosphere (c) Mesosphere

Ans: (b) Stratosphere.

(iv) As we go up the layers of the atmosphere, the pressure

(a) Increases. (b) Decreases. (c) Remain same

Ans: (b) Decreases.

(v) When precipitation comes down to the earth in liquid form, it is called:

(a) Cloud (b) Rain (c) Snow

Ans: (b) Rain.

Q3. Match the following:

| | | | |
|---|-------------|-----|----------------------------|
| 1 | Trade winds | (a) | Seasonal |
| 2 | Loo | (b) | Horizontal movement of air |
| 3 | Monsoon | (c) | Permanent wind |
| 4 | Wind | (d) | Local wind |

Ans:

| | | | |
|---|-------------|-----|----------------------------|
| 1 | Trade winds | (c) | Permanent wind |
| 2 | Loo | (d) | Local wind |
| 3 | Monsoon | (a) | Seasonal |
| 4 | Wind | (b) | Horizontal movement of air |

Q4. Give reasons.

(i) Wet clothes take longer time to dry on a humid day?

Ans. On a humid day, the air has greater moisture. Hence, it is not able to carry the water vapor and so, wet clothes take longer time to dry on a humid day.

(ii) Amount of insolation decreases from equator towards poles?

Ans: Insolation refers to the incoming solar power intercepted by the earth. Sunlight falls almost vertically on the equator, whereas it falls at some angles on the poles. So amount of insolation decreases from equator towards poles.

Q5. For fun.

Q(i). Solve this crossword puzzle with the help of given clues(on page no.28):


Ans:





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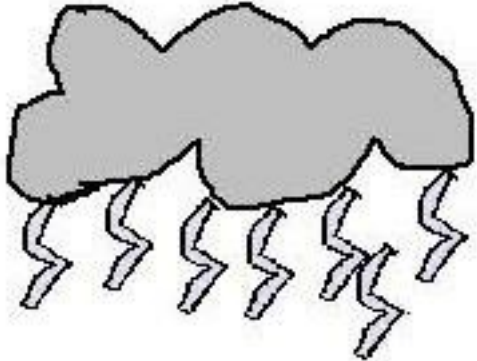
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Q(ii) Make a weather calendar for one week. Use pictures or symbols to show different types of weather. You can use more than one symbol in a day, if the weather changes. For example, the sun comes out when rain stops. An example is given below:

Answer.

| Day | Symbol of Weather Conditions | | Weather Conditions |
|--------|---|--|--------------------|
| Sunday |  | | Sunny day |
| | | | |

| | | |
|-----------|---|----------------|
| Monday |  | Cloudy day |
| Tuesday |  | Rainy day |
| Wednesday |  | Snowfall. |
| Thursday |  | Hail Storm. |
| Friday | | Tropical-Storm |

| | | |
|----------|--|----------------|
| |  | |
| Saturday |  | Thunder Shower |