

Q. 1. Fill the missing word in the blank spaces in the following statements :

- (a) Wind is air.
- (b) Winds are generated due to heating on the earth.
- (c) Near the earth's surface..... air rises up whereas..... air comes down.
- (d) Air moves from a region of..... pressure to a region of..... pressure.

Ans. (a) moving, (b) uneven, (c) warm, cooler, (d) high, low.

Q. 2. Suggest two methods to find out wind direction at a given place.

Ans. (i) Take some sand in your hand and allow it to fall freely. It will flow in the direction in which the wind is blowing. Some activity can be done with a piece of paper.

(ii) Allow the balloon to fly freely. The direction in which it moves will give the direction of wind.

Q. 3. State two experiences that made you think that air exerts pressure.

Ans. (i) Whenever air is blown into the balloon, it gets inflated. If the air is overfilled in the balloon, it bursts due to the excessive air pressure.

(ii) Flags flutter in wind. This indicates air exerts pressure.

Q. 4. You want to buy a house. Would you like to buy a house having windows but no ventilators? Explain your answer.

Ans. The warm air inside the house rises up and leaves out through ventilators and fresh air comes in through the window. This is how air circulation takes place in a house thus

a house without a ventilator is not a safe or healthy house to live in. Hence, such a house should not be bought.

Q. 5. Explain why holes are made in hanging banners and hoardings.

Ans. Air exerts pressure. When the wind blows, the banners and hoardings flutter and may get torn due to this pressure. So the holes are made to allow the wind to pass through, thus reducing the pressure exerted. This protects the banners from getting loose or falling down.

Q. 6. How will you help your neighbours in case cyclone approaches your village/town?

Ans. I will help my neighbours by :

(i) making them aware of cyclone forecast and warning services.

(ii) rapidly communicating the warning to all government agencies and relevant places.

(iii) constructing cyclone shelters in the cyclone prone areas.

(iv) helping them in shifting essential goods, domestic animals to safer places.

Q.7. What planning is required in advance to deal with situation created by a cyclone?

Ans. The following points should be kept in mind while dealing with a cyclone :

(i) Listen carefully to the warnings transmitted on TV and Radio.

(ii) Keep an emergency kit ready.

(iii) Move to safer places.

(iv) Store food in waterproof bags.

(v) Keep all emergency numbers.

(vi) Do not go out of the house unless necessary.

Q. 8. Which one of the following places is unlikely to be affected by a cyclone?

- (i) Chennai
- (ii) Mangaluru (Mangalore)
- (iii) Amritsar
- (iv) Puri

Ans. (iii) Amritsar

Q. 9. Which of the statements given below is correct?

(i) In winter the winds blow from the land to the ocean.

(ii) In summer the winds blow from the land towards the ocean.

(iii) A cyclone is formed by a high pressure system with very high speed winds revolving around it.

(iv) The coastline of India is not vulnerable to cyclones.

Ans. (i) In winter the winds blow from the land to the ocean.