



GEOGRAPHY

BOOKS - FULL MARKS GEOGRAPHY (HINGLISH)

ATMOSPHERIC CIRCULATION AND WEATHER SYSTEMS

**Ncert Textbook Questions With Answers Multiple
Choice Questions**

1. If the surface air pressure is 1,000 mb, the air pressure at 1 km above the surface will be:

A. 700 mb

B. 1,100 mb

C. 900 mb

D. 1,300 mb

Answer: C



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2. The Inter Tropical Convergence Zone

normally occurs:

- A. Near the Equator
- B. Near the Tropic of Cancer
- C. Near the Tropic of Capricorn
- D. Near the Arctic Circle

Answer: A



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3. The direction of wind around a low pressure in northern hemisphere is :

A. Clockwise

B. Perpendicular to isobars

C. Anti-clock wise

D. Parallel to isobars

Answer: C



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4. Which one of the following is the source region for the formation of air masses?

A. The Equatorial Forest

B. The Himalayas

C. The Siberian Plain

D. The Deccan Plateau

Answer: C



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Ncert Textbook Questions With Answers Answer The Questions In About 30 Words

1. What is the unit used in measuring pressure? Why is the pressure measured at station level reduced to the sea level in preparation of weather maps?



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2. While the pressure gradient force is from north to south, i.e. from the subtropical high

pressure to the equator in the northern hemisphere, why are the winds north easterlies in the tropics?



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3. What are the geotrophic winds?



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4. Explain the land and sea breezes.



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Ncert Textbook Questions With Answers Answer The Questions In About 150 Words

1. Discuss the factors affecting the speed and direction of wind.



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2. Draw a simplified diagram to show the general circulation of the atmosphere over the

globe. What are the possible reasons for the formation of subtropical high pressure over 30° N and S latitudes?



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3. Why does tropical cyclone originate over the seas? In which part of the tropical cyclone do torrential rains and high velocity winds blow and why?



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Ncert Textbook Questions With Answers Project Work

1. Collect weather information over media such as newspaper, TV and radio for understanding the weather systems.



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2. Read the section on weather in any newspaper, preferably, one having a map showing a satellite picture. Mark the area of

cloudiness. Attempt to infer the atmospheric circulation from the distribution of clouds. Compare the forecast given in the newspaper with the TV coverage, if you have access to TV. Estimate, how many days in a week was the forecast were accurate.



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Additional Questions With Answers Multiple Choice Questions

1. What does a cell in tropics called?

A. Polar cell

B. Hadley cell

C. Descending winds

D. Frost cell

Answer: B



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2. What is tropical cyclone in Australia called?

A. Hurricanes

B. Typhoons

C. Tornado

D. Willy-willies

Answer: D



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3. What is tropical cyclone in China and Japan called?

A. Hurricanes

B. Typhoons

C. Tornado

D. Willy-willies

Answer: B



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4. Circular flow of air in low pressure area is called:

A. Cyclonic circulation

B. Pacal

C. Geomorphic winds

D. Western storm

Answer: A



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5. The cool air, of the high plateaus and ice fields draining into the valley is called:

A. Mountain wind

B. Valley breeze

C. Katabatic wind

D. Cold front

Answer: C



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6. When front becomes constant, it is called:

A. Cold front

B. Warm front

C. Stationary front

D. Occluded

Answer: C



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7. From severe thunderstorms sometimes spiralling wind descends like a trunk of an elephant with great force, with very low pressure at the centre, causing massive destruction on its way. Such a phenomenon is called:

A. Hurricanes

B. Typhoons

C. Tornado

D. Willy-willies

Answer: C



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8. What is the unit for measuring pressure?

- A. Barometer
- B. Millibars and Pascal
- C. Fahrenheit
- D. Isobars

Answer: B



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9. On the pole wards along 60° N and 60° S, the low-pressure belts are termed as the:

- A. Polar high
- B. Sub tropical highs
- C. Sub polar lows
- D. Equator high

Answer: C



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10. How is unit kilopascal represented?

A. hpa

B. bpa

C. cpa

D. spa

Answer: A



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11. Which instrument is used for measuring pressure?

A. Mercury barometer or the aneroid barometer

B. Pascal

C. Millibars

D. Seismograph

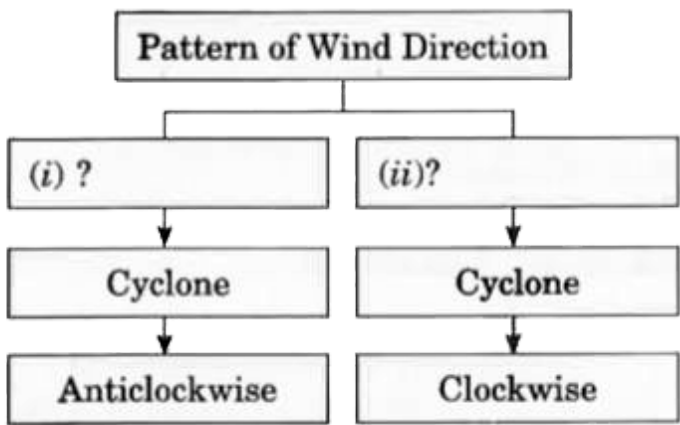
Answer: A



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Additional Questions With Answers Table Based Question

1. Complete the following table by writing appropriate answer:



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Additional Questions With Answers Very Short Answer Type Questions

1. How many types of fronts are there?



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2. What do you mean by extra tropical cyclones?



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3. How do front affect weather and what is their important feature?



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4. By which different names are tropical cyclones known?



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5. What is Coriolis force?



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6. At what rate does pressure decrease with rise in height?



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7. How do the horizontal winds near the earth surface respond to the combined effect of forces?



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8. What is low pressure system?



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9. What is high pressure system?



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10. What is polar cell?



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11. What is ferrel cell?



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12. What are the causes behind differences in atmospheric pressure?



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13. What determines the pattern of general circulation of the atmosphere?

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14. What factors determine the pattern of planetary winds?

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Additional Questions With Answers Short Answer Type Questions

1. What are winds? Explain different types of winds.



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2. What is air mass? In how many categories are air masses categorized on the basis of their source regions?



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3. What is a front? How many types of front are there? Explain all of them.



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4. What do you mean by Geostrophic wind? On what factors does their pattern depend?



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5. What is a tropical cyclone? Give its two examples. What are the favourable conditions for its formation?



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6. Explain about mountain and valley winds.



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7. What is atmospheric pressure? Explain about different atmospheric belts.



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8. Explain horizontal distribution of atmospheric pressure on the earth.



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**Additional Questions With Answers Long Answer
Type Questions**

1. Write a detailed note on tornado.



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2. Write a detailed note on Coriolis Force.



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3. Differentiate between vertical variation of pressure and horizontal distribution of atmospheric pressure on earth.



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4. What factors affect direction and velocity of winds?



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[Additional Questions With Answers Hot Question](#)

1. What are the features of El-Nino?



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Additional Questions With Answers Map Skill

1. Use a diagram to differentiate the direction of land breeze and sea breeze.



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