

ATMOSPHERE & CLIMATOLOGY BASED INDIAN GEOGRAPHY MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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Q1. Consider the following statements :

- Half the water vapour in the air in atmosphere lies below an altitude of 1000 m.
- The amount of precipitable water in the atmosphere increases from the equator to the poles.

Which of the statements given above is/are correct ?

- a) 2 only
 - b) 1 only
 - c) Neither 1 nor 2
 - d) Both 1 and 2
-

Q2. Consider the following **climatic and geographical phenomena**.

1. Condensation
2. High temperature and humidity
3. Orography
4. Vertical wind

Thunder clouds development is due to which of these phenomena?

- a) 2, 3 and 4
 - b) 1 and 2
 - c) 1, 2, 3 and 4
 - d) 1, 2 and 4
-

Q3. Humid heat is experienced in summer when the weather is

- a) Keen
 - b) Raw
 - c) Muggy
 - d) Scorching
-

Q4. Consider the following statements and select the correct answer with the help of codes given below:

Assertion (A):

Hurricane cannot develop in the vicinity of equator.

Reason (R):

Coriolis force is maximum over the equator.

- a) Both (A) and (R) are true, but (R) is not correct explanation of A.
- b) Both (A) and (R) are true and (R) is the correct explanation of A.
- c) (A) is false, but (R) is true.
- d) (A) is true, but (R) is false.

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Q5. The **South-East trade winds** are attracted towards the Indian subcontinent in the rainy season due to

- a) the effect of easterlies
- b) the development of cyclone over the equator
- c) the presence of low atmospheric pressure over NorthWest India
- d) the effect of Northern-East trade winds

Q6. Which one of the following locations has 'Blood Rain'?

- a) France
- b) Italy
- c) Spain
- d) Canada

Q7. Speed of wind is measured by

- a) hygrometer

- b) barometer
 - c) anemometer
 - d) thermometer
-

Q8. Which of the following **sequences** is correct for **rainfall**?

- a) Rapid ascent of air ? large raindrops ? heavy downpour
 - b) Slow ascent of air ? slow condensation ? heavy downpour
 - c) Descent of air ? air warmed ? heavy downpour
 - d) Pressure decreased ? air compressed ? heavy downpour
-

Q9. In an Anticyclone

- a) Winds blow in clockwise direction in southern hemisphere.
 - b) Barometric pressure is high towards centre of the system.
 - c) Situation of calm prevails and weather changes rapidly.
 - d) Weather remains moist and sky is cloudy.
-

Q10. The water content in the atmosphere

- a) increases as temperature increase
 - b) is not dependent on temperature
 - c) cannot be measured
 - d) remains unchanged with change in temperature
-

Q11. Which country of the world is the largest producer of wood pulp?

- a) Norway
 - b) U.S.A.
 - c) Canada
 - d) Sweden
-

Q12. What is the term used to denote the temperature at which the water vapour present in the atmosphere is sufficient to saturate?

- a) Dew point
- b) Condensation point
- c) Saturation point
- d) Sublimation point

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Q13. Which of the following gases in the atmosphere is/are responsible for **acid rains**?

1. Oxides of sulphur
2. Oxides of nitrogen
3. Oxides of carbon

Select the **correct** answer using the codes given below

- a) 1 and 3
- b) 1 and 2
- c) 1, 2 and 3
- d) Only 2

Q14. Which one among the following is the idealised global pattern of surface wind from the Equator to Pole ?

- a) Easterlies-Westerlies-Trade Wind-Easterlies
- b) Doldrum-Westerlies-Trade Wind-Easterlies
- c) Westerlies-Trade Wind-Doldrum-Easterlies
- d) Doldrum-Trade wind-Westerlies-Easterlies

Q15. Which of the following are **wrongly matched**?

1. Typhoons - China Sea
2. Cyclones - West Indies
3. Hurricanes - Indian Ocean
4. Tornadoes - Australia

a) 2, 3 and 4

b) 1, 2 and 4

c) 3 and 4

d) 2 and 4

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Answers to the above questions :

Q1. Answer: (c)

Half of the water vapour in the air in atmosphere lies below an altitude of 2 kilometer and 90 per cent of water vapour lies below an altitude of 5 kilometer. Amount of precipitable water in atmosphere increases from the poles to the equator.

Q2. Answer: (d)

Q3. Answer: (c)

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Q4. Answer: (d)

Hurricanes are unable to form along the equator because of the zero Coriolis Effect at 0 latitude, which is the force required for the spinning motion of these violent storms.

One of the necessary environmental conditions for an atmospheric disturbance to become a full-blown hurricane is for the rough weather conditions to occur at least 300 miles away from the equator.

The Coriolis Effect, which increases from the equator to pole is the apparent force that tends to move rotating objects to the right.

Q5. Answer: (c)

During the Rainy Season in India (Mid-June to the end of September), the intense heat that prevails in the Indian subcontinent causes a low-pressure region over the Northern Plains in the Northwestern parts of the country. It is intense enough to attract the moisture-bearing winds from the Indian Ocean.

Thus, the south-east trade winds from the Southern Hemisphere are attracted towards India. On crossing the equator, they are deflected to their right and blow over the Indian subcontinent as the south-west monsoon winds.

Q6. Answer: (b)

Q7. Answer: (c)

An anemometer is a device for measuring wind speed, and is a common weather station instrument. The term is derived from the Greek word anemos, meaning wind, and is used to describe any airspeed measurement instrument used in meteorology or aerodynamics. The first known description of an anemometer was given by Leon Battista Alberti around 1450.

Q8. Answer: (d)

There is a negative relationship between rainfall and pressure. When the air pressure is lower, more rainfall occurs. When there is low pressure in the atmosphere, the air bubbles that are rising, are always hotter than the air around.

If the ground is heated then air will rise. The cool air will produce condensation that will ultimately lead to rainfall.

Q9. Answer: (b)

An anticyclone is a region of high atmospheric pressure relative to the surrounding air, generally thousands of kilometres in diameter and also known as a high or high-pressure system.

Anticyclones appear on weather charts as a series of concentric, widely spaced isobars of 1000 mbs and above. The roughly circular closed isobar at its central region indicates the area of highest pressure.

Q10. Answer: (a)

Q11. Answer: (b)

Q12. Answer: (a)

Dew point is the temperature at which the air is fully saturated and below which condensation normally occurs, water vapour starts to condense to form water droplets.

Q13. Answer: (a)

Acid rain is a result of air pollution. Some gases especially nitrogen oxides and sulphur dioxide react with the tiny droplets of water in clouds to form sulphuric and nitric acids.

The rain from these clouds then falls as very weak acid which is known as “acid rain”.

Q14. Answer: (d)

From the Equator to Pole the idealised global pattern of surface wind is

Doldrum > Trade wind > Westerlies > Easterlies

Q15. Answer: (d)

Cyclone occurs in the south Pacific or the Indian Ocean. Cyclones are characterized by inward spiralling winds that rotate about a zone of low pressure.

In fact, tornadoes have been documented in every state of the United States, and on every continent, with the exception of Antarctica.

In fact, wherever the atmospheric conditions are exactly right, the occurrence of a tornadic storm is possible.

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