

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

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Q1. The velocity of the winds is determined by

- a) pressure gradient and humidity
 - b) pressure gradient
 - c) pressure and earth's rotation
 - d) coriollis effect
-

Q2. A sudden fall of Mercury in Barometer indicates

- a) Stormy weather
 - b) Fair weather
 - c) Hot weather
 - d) Cold weather
-

Q3. Westerlies in Southern Hemisphere are stronger and persistent than in Northern Hemisphere because

1. Southern Hemisphere has less landmass as compared to Northern Hemisphere.
2. Coriolis force is higher in Southern Hemisphere as compared to Northern Hemisphere.

Which of the statements given above is/are **correct**?

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

Q4. Which one of the following pairs is **not correctly matched**?

- a) Bora - Poland
- b) Foehn - Alps Mountain
- c) Khamsin – Egypt
- d) Mistral - Rhine Valley

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Q5. The **solar radiation** coming to Earth is called

- a) Insolation
- b) Radiant energy
- c) Terrestrial radiation
- d) Sunshine

Q6. Landmasses are heated and cooled much faster than water bodies. Identify the true statements in this regard.

1. The land gets heated by conduction
2. Water has a higher specific heat
3. Only the surface layers of water are heated
4. Water gets heated by convection

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

Q7. Which region of the Earth's surface is called doldrums?

- a) Sub-tropical high pressure belt
- b) Equatorial low pressure belt

- c) Sub-polar low pressure belt
 - d) Between 10° to 23.5° North and South Latitudes
-

Q8. Although hot deserts have a very low annual rainfall, occasional heavy rain storms do occur and these sometimes produce steep-sided, flat-floored valleys called

- a) wadi
 - b) gorges
 - c) barchan
 - d) canyons
-

Q9. Which one of the following is the **correct sequence** of increasing the velocity of wind?

- a) Fresh breeze-Light breeze-Hurricane-Gale
 - b) Light breeze-Fresh breeze-Gale-Hurricane
 - c) Hurricane-Light breeze-Gale-Fresh breeze
 - d) Light breeze-Gale-Fresh breeze-Hurricane
-

Q10. Consider the following statements:

1. The approach of a cyclone is characterised by a rise in barometric reading.
2. In the cyclones of the southern hemisphere, the winds circulate in an anticlockwise direction.

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
-

Q11. If tropical rain forest is removed, it does not regenerate quickly as compared to a tropical deciduous forest. This is because

- a) Propagules of the trees in a rain forest have poor viability
- b) The soil of rain forest is deficient in nutrients
- c) Exotic species invade the fertile soil of rain forest
- d) The rain forest species are slow growing

Q12. The diagram given below shows the schematic relations of temperature and precipitation of tropical climatic type over land: Decreasing Temperature 1234 Increasing Precipitation Arrange the climatic types in the correct sequence from left to right:

- Monsoon topics
- Wet and dry tropics
- Arid and semiarid
- Rainy tropics.

Select the correct answer using the code given below.

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

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Q13. Which one of the following statements is **true** about tropopause?

- a) Its average height is about 10 km over the equator.
- b) It is about 5 km thick layer.
- c) The temperature at its top is lowest over the equator and relatively higher over the poles.
- d) There is no seasonal variation in its height.

Q14. Which one of the following zones of the atmosphere is rich in ozone gas?

- a) Troposphere

- b) Mesosphere
- c) Ionosphere
- d) Stratosphere

Q15. In which of the following areas, the main centre of 'Hurricane Mathew' that occurred in the Caribbean Sea in the 1st week of October 2016 was located?

- a) Georgia
- b) Florida
- c) South-West Haiti
- d) South Carolina

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Answers to the above questions :

Q1. Answer: (b)

Q2. Answer: (a)

Q3. Answer: (b)

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Q4. Answer: (a)

Q5. Answer: (a)

Insolation is the solar radiation that reaches the earth's surface. It is measured by the amount of solar energy received per square centimetre per minute.

Insolation affects temperature. The more the insolation, the higher the temperature. On any given day, the strongest insolation is received at noon.

The insolation into a surface is largest when the surface directly faces the Sun. As the angle increases between the direction at a right angle to the surface and the direction of the rays of sunlight, the insolation is reduced in proportion to the cosine of the angle.

Q6. Answer: (c)

Q7. Answer: (b)

The air at the equator is generally rising. For this reason, there is little wind in the region. This region of light shifting winds near the equator is called the doldrums.

Q8. Answer: (a)

Q9. Answer: (b)

The correct sequence is Light breeze-Fresh breeze-Gale-Hurricane.

Q10. Answer: (d)

Cyclone is a mass of air whose isobars form an oval or circular shape, with low pressure at the centre.

The air converges at the centre and rises to be disposed of. In a depression, the winds rotate anticlockwise in the northern hemisphere. While in the southern hemisphere, the circular movement of winds is in a clockwise direction.

Q11. Answer: (b)

Q12. Answer: (c)

Q13. Answer: (c)

The tropopause is the boundary in the Earth's atmosphere between the troposphere and the stratosphere. The tropopause is higher than the global average in warm regions (e.g., tropics) and lower in cold regions (e.g., polar regions).

If the atmosphere is warming due to climate change, then we might expect the height of the tropopause to increase.

Q14. Answer: (d)

Stratosphere is rich in Ozone gas.

Q15. Answer: (c)

As of 11:00 EST on 3rd Oct. Category-4, Hurricane Mathew was some 330 km.

Southwest from Kingstone (Jamaica) and 440 km South-West from Ports64-Prince (Haiti) in the Caribbean Sea.

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