

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

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Created By [Careericons](#) Team

Q1. Consider the following **climatic characteristics**:

1. Temperatures range from 21°C in the summer to 10°C or below in the winter.
2. Off-shore trade winds blow during the summer.
3. The summers are hot and dry, and winters are cool and moist.
4. The annual rainfall ranges from 500 mm to 760 mm.

Select the **correct** climatic type which possesses the above characteristics using the codes given below:

- a) Mediterranean
- b) Tropical Monsoon
- c) West European type
- d) China type

Q2. Our **atmosphere** is divided into layers.

- a) Three
- b) Two
- c) Five
- d) Four

Q3. Match the following:

List I	List II
A. Temperature falls with height	1. Ionosphere
B. Reflects radio waves back to earth	2. Stratosphere
C. Contains most of the ozone	3. Tropopause
D. Fall in temperature stops	4. Troposphere

Codes: A B C D

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

Q4. Which one of the following local winds is **different** from the other three?

- a) Foehn
- b) Khamsin
- c) Mistral
- d) Sirocco

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Q5. Which one of the following regions on the surface of Earth has Horse Latitudes?

- a) Sub-tropical high pressure belt
 - b) Equatorial low pressure belt
 - c) Polar high pressure belt
 - d) Sub-polar low pressure belt
-

Q6. Which of the following is/are **correct**?

1. The Northern Pacific is the deepest part of the Ocean.
2. The South-West Pacific is devoid of marginal seas.
3. The South-East Pacific has broad submarine ridges and plateaus.
4. The ocean floor of the Pacific Ocean is fairly uniform with broad rises and depressions.

Select the **correct** answer from the codes given below:

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

c) 1, 3 and 4

d) 2 and 3

Q7. Which of the following is the **lowest atmospheric layer**?

a) Stratosphere

b) Lithosphere

c) Hydrosphere

d) Troposphere

Q8. Which one of the following diagrams shows the **direction and duration of wind**?

a) Climogram

b) Cartogram

c) Star diagram

d) Ergograph

Q9. Match List-I with List-II and select the correct answer using the code given below the lists.

List I	List II
(Region)	(Types of Climate)
a. California	1. Mediterranean
b. West Australia	2. Tropical Monsoon
c. Bangladesh	3. Cold Temperate
d. Siberia	4. Hot Desert

Codes: A B C D

a) 1 4 2 3

b) 1 2 3 4

c) 2 4 1 3

d) 2 3 4 1

Q10. What is the most important element of climate ?

- a) Temperature
 - b) Rainfall
 - c) Humidity
 - d) Pressure
-

Q11. Statement I:

The decrease of air temperature with increasing altitudes in the atmosphere is called the vertical temperature gradient.

Statement II:

In the Troposphere, air temperature decreases with increasing altitude due to radiation from the Earth.

Code:

- a) Both the statements are individually true but Statement II is not the correct explanation of Statement I
 - b) Both the statements are individually true and Statement II is the correct explanation of Statement I
 - c) Statement I is false but Statement II is true
 - d) Statement I is true but Statement II is false
-

Q12. Which one of the four regions above the earth has smallest height (km) ?

- a) Mesosphere
 - b) Stratosphere
 - c) Troposphere
 - d) Thermosphere
-

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Q13. Assertion (A):

The ports of North-West Europe are open throughout the year.

Reason (R):

The South Westerly winds blow over North-West Europe throughout the year.

Select the correct answer using the code given below.

Code

- a) Both (A) and (R) are true, but (R) is not the 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
-

Q14. Consider the following statements about the 'Roaring Forties'.

1. They blow uninterrupted in the Northern and Southern Hemispheres.
2. They blow with great strength and constancy.
3. Their direction is generally from North-West to East in the Southern Hemisphere.
4. Overcast skies, rain and raw weather are generally associated with them.

Which of these statements are **correct**?

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

Q15. What is stated in terms of grams of water vapour per kilogram of moist air?

- a) Relative humidity
 - b) Specific humidity
 - c) Absolute humidity
 - d) Vapour pressure
-

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Answers to the above questions :

Q1. Answer: (a)

Q2. Answer: (c)

Earth has five primary layers, which are the troposphere, stratosphere, mesosphere, thermosphere and exosphere.

.From the Earth upwards, those layers are:

1. **Troposphere:** 0 to 12 km;
2. **Stratosphere:** 12 to 50 km;
3. **Mesosphere:** 50 to 80 km;
4. **Thermosphere:** 80 to 700 km; and
5. **Exosphere:** 700 to 10,000 km.

Q3. Answer: (d)

1. In the troposphere temperature falls with the height. The troposphere, the lowest layer of Earth's atmosphere, is heated from below. Higher up in the troposphere, where less heat from the surface warms the air, the temperature drops.
2. The ionosphere reflects radio waves back to the earth.
3. The ozone layer or ozone shield is a region of Earth's stratosphere that absorbs most of the Sun's ultraviolet (UV) radiation. It contains high concentrations of ozone (O₃) in relation to other parts of the atmosphere, although still small in relation to other gases in the stratosphere.
4. The tropopause is the boundary between the troposphere (which is based at the earth's surface and has a temperature that decreases with height) and the stratosphere (which is a stable region of very low levels of vertical mixing above the troposphere).

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Q4. Answer: (c)

Mistral the local wind is different from the others.

The mistral is a strong, cold and usually dry regional wind in France, coming from the north or northwest, which accelerates when it passes through the valleys of the Rhone and the Durance Rivers to the coast of the Mediterranean around the Camargue region.

Q5. Answer: (a)

Horse Latitudes are the subtropical belts of variable winds and columns that is between the latitudes 25° and 35° south and north. They coincide with sub-tropical high-pressure belts.

Q6. Answer: (c)

Q7. Answer: (d)

The troposphere is the lowest layer of Earth's atmosphere. It starts at Earth's surface and goes up to a height of 7 to 20 km above sea level.

Most of the mass (about 75-80%) of the atmosphere is in the troposphere. Almost all weather occurs within this layer.

Q8. Answer: (a)

By analyzing climogram, we can get relevant information about a climate of a place. It shows wind direction and frequency of wind.

Q9. Answer: (a)

Q10. Answer: (a)

Although temperature, pressure and humidity, all are important elements of weather and climate, the temperature is the basis of all these as all other elements directly or indirectly depend upon it.

Q11. Answer: (b)

Statement I is correct and statement II is the correct explanation of statement I.

Q12. Answer: (c)

The troposphere is the lowest portion of Earth's atmosphere. The average depth of the troposphere is approximately 17 km (11 mi) in the middle latitudes.

It is deeper in the tropics, up to 20 km and shallower near the Polar Regions, at 7 km in summer, and indistinct in winter. It contains approximately 80% of the atmosphere's mass and 99% of its water vapour and aerosols.

Q13. Answer: (a)

Q14. Answer: (a)

Q15. Answer: (b)

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