

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

For All Competitive SSC, Bank, IBPS, UPSC, Railway, IT & Other Govt. Exams

Created By [Careericons](#) Team

Q1. Which one of the following is **correctly matched**?

- a) Wet throughout the year - Sudan
 - b) Wet winter dry summer - Italy
 - c) Dry throughout the year – Chile
 - d) Wet summer dry winter - Iran
-

Q2. Which of the following statements about **tornadoes** with their **usually spin** are **correct**?

1. anticlockwise in the northern hemisphere.
2. clockwise in the southern hemisphere.
3. clockwise in the northern hemisphere.
4. anticlockwise in the southern hemisphere.

Select the **correct** answer using the code given below:

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

Q3. Doldrums are characterized by

- a) uniform high pressure
 - b) uniform low pressure
 - c) low humidity
 - d) high wind velocity
-

Q4. Which one of the following regions of the U.S.A. is known as 'Tornado Alley'?

- a) Pacific Coast
- b) Atlantic Seaboard
- c) Alaska
- d) Mississippi Plains

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Q5. The tropical cyclones do not occur close to the equator because of

- a) Calm air
- b) Excessive heat
- c) The winds are too wet and heavy
- d) Weak coriolis force

Q6. A band of wind called 'Jet Stream' is found in—

- a) Middle Troposphere
- b) Lower Troposphere
- c) Whole Troposphere
- d) Upper Troposphere

Q7. Ozone layer is formed due to reactions of :

- a) carbon dioxide and layers of atmosphere
- b) oxygen and ultraviolet rays
- c) infrared rays and ultraviolet rays
- d) cosmic rays and layers of atmosphere

Q8. Sirocco is a name used to mean

- a) a volcano
 - b) a local wind
 - c) an ocean current
 - d) an island
-

Q9. Rainfall caused by intense **evaporation in equatorial areas** is called

- a) Cyclonic rainfall
 - b) Orographic rainfall
 - c) Convectional rainfall
 - d) Frontal rainfall
-

Q10. Name the continent where 'Tundra' type of climate is **not found**

- a) Asia
 - b) Europe
 - c) North America
 - d) Africa
-

Q11. Frontal Rain is caused by

- a) Winds from sea
 - b) Convection current
 - c) Condensation of water evaporated from mountains
 - d) Cyclonic activity
-

Q12. The **jet aircraft fly** very easily and smoothly in the lower stratosphere. What could be the appropriate explanation?

1. There are no clouds or water vapour in the lower stratosphere.

2. There are no vertical winds in the lower stratosphere.

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

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

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Q13.

List I	List II
A. Cloudiness and heavy precipitation unfavourable	1. Equatorial region
B. Westerlies throughout the year and mild winters	2. Mediterranean region
C. Famous for game parkland type of vegetation	3. Savanna region
D. Dry summers, wet winters and orchard farming	4. West European region

Codes: A B C D

- a) A – 4 ; B – 1 ; C – 3 ; D – 2
- b) A – 1 ; B – 4 ; C – 3 ; D – 2
- c) A – 4 ; B – 1 ; C – 2 ; D – 3
- d) A – 1 ; B – 4 ; C – 2 ; D – 3

Q14. Which of the following statements is/are **correct**?

- 1. Cyclone is a low-pressure system.
- 2. The wind movement is clockwise in the cyclone of the northern hemisphere.

Select the **correct** answer using the code given below:

- a) 2 only
- b) 1 only
- c) Neither 1 nor 2

d) Both 1 and 2

Q15. All vital **atmospheric processes** leading to various climatic and weather conditions take place in the :

- a) Troposphere
- b) Stratosphere
- c) Exosphere
- d) Ionosphere

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Answers to the above questions :

Q1. Answer: (b)

Q2. Answer: (a)

Tornado—A rapidly rotating column of the air developed around a very intense low-pressure area, associated with a dark funnel-shaped cloud, originate in the USA.

The air is anticlockwise in the northern hemisphere and clockwise in the southern hemisphere.

Q3. Answer: (b)

Doldrums is the name for the equatorial belt of low pressure lying between 5° south and 5° North latitude.

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Q4. Answer: (d)

Q5. Answer: (d)

Q6. Answer: (d)

Jet Stream is a narrow belt of high altitudes (above 12000 m) westerly wind in the troposphere whose speed varies 110 km/hr in summer to 184 km/hr in winter.

Q7. Answer: (b)

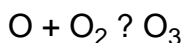
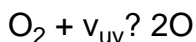
Ozone in the Earth's stratosphere is created by ultraviolet light striking ordinary oxygen molecules containing two oxygen atoms (O₂), splitting them into individual oxygen atoms

(atomic oxygen).

The atomic oxygen then combines with unbroken O₂ to create ozone (O₃).

The ozone molecule is unstable and when ultraviolet light hits ozone it splits into a molecule of O₂ and an individual atom of oxygen, a continuing process called the ozone-oxygen cycle.

Chemically, this can be described as,



Q8. Answer: (b)

Sirocco is a local Mediterranean wind that comes from Sahara and can achieve Hurricane speed in North Africa and Europe. Its Arabic name is Qibli.

Q9. Answer: (c)

The equatorial regions are known for convectional rainfall that occurs due to the thermal convection currents caused due to the heating of ground due to insolation

. In these, the warm air rises up and expands then, reaches a cooler layer and saturates, then condenses mainly in the form of cumulus or cumulonimbus clouds.

The equatorial regions receive convectional rainfall almost on a daily basis. The rainfall is of very short duration but in the form of heavy showers.

Q10. Answer: (d)

The meaning of the word 'tundra' is 'a region in continents of Asia, Europe and North America, where the growth of trees is prevented due to low temperatures and permanently frozen subsoil'.

These kinds of geographic areas are found near the North Pole and the South Pole. In physical geography, the tundra is a biome where tree growth is hindered by low temperatures and short growing seasons.

There are three types of tundra: Arctic tundra, alpine tundra, and Antarctic tundra. In the tundra, the vegetation is composed of dwarf shrubs, sedges and grasses, mosses, and lichens. Scattered trees grow in some tundra.

Q11. Answer: (d)

Frontal rainfall is a type of precipitation that occurs when a warm air mass and a cold air mass meet. Extra-tropical cyclones form as waves along weather fronts before occluding later in their life cycle as cold-core cyclones.

Cyclogenesis is the development or strengthening of cyclonic circulation in the atmosphere (a low-pressure area).

Q12. Answer: (a)

The idea is to optimize fuel burn reason is the low air density that reduces parasitic drag on the airframe. It also allows them to stay above any hard weather (extreme turbulence).

Airflow in the stratosphere is much lesser turbulent than in the troposphere and this is the reason that jet aircraft like to cruise at stratospheric altitudes for, the flight is less “bumpy.” So statement 2 is correct. The majority of clouds form in the Earth’s troposphere, but there are occasions where clouds in the stratosphere and mesosphere are formed and have been observed.

Statement 1 which says that there are no clouds or water vapour in the lower stratosphere, is not a correct statement, to the extent that it does not explain the flight of jets in the lower stratosphere.

Q13. Answer: (d)

Q14. Answer: (b)

Cyclones are moving bodies of air in an enclosed area rotating in the same direction as the earth. The air inside the cyclone moves anticlockwise in the Northern Hemisphere.

Q15. Answer: (a)

The troposphere, which extends up to a height of 12 km on average from the surface of the earth, is the locale of all the vital atmospheric processes which create the climatic and weather conditions on the earth’s surface.

About half of the mass of air comprising the entire atmosphere is concentrated in this zone. This is the lowermost layer of the atmosphere.

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