

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

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Q1. In which of the following layer of atmosphere the **absorption and scattering** of the solar ultraviolet radiation takes place?

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

Q2. If there is no carbon dioxide in the earth's atmosphere, the temperature of the earth's surface would be

- a) higher than the present
 - b) dependent on the amount of oxygen in the atmosphere
 - c) the same
 - d) less than the present
-

Q3. The **climate of North America** is influenced during winter by the

- a) Warm airmasses
 - b) Polar airmasses
 - c) Tropical airmasses
 - d) Continental airmasses
-

Q4. Which one of the areas marked as (a), (b), (c) and (d) in the given figure of the cyclone, witnesses heavy torrential short duration rainfall accompanied by thunderstorms? a

- a) b
- b) a
- c) d
- d) c

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Q5. What is the general **direction of cyclones** formed in the Bay of Bengal?

- a) West to East
- b) East to West
- c) North to South
- d) West to South

Q6. Spring tides occur when

- a) the moon, the sun and the earth are the right angles, with the earth at the apex
- b) the moon, the sun and the earth are in the same line
- c) the moon is farthest from the earth
- d) the moon is nearest to the earth

Q7. Clouds are the result of

- a) Normal temp. lapse rate
 - b) Evaporation
 - c) Condensation
 - d) Catabatic lapse rate
-

Q8. Which of the following statement regarding the **ozone layer** within the atmosphere is/are correct?

1. It absorbs most of the Ultraviolet radiation found in the Sun's rays.
2. Chlorofluorocarbons are a serious threat to the ozone layer.

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

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

Q9. There are three distinct characters of temperature stratification of the atmosphere around the Earth. Which one among the following is the **correct arrangement of the layers** (from the Earth's surface upwards)?

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

Q10. The most important fishing grounds of the world are found in the regions where

- a) rivers drain out large amounts of freshwater into the sea
- b) warm and cold atmospheric currents meet
- c) continental shelf is undulating
- d) warm and cold oceanic currents meet

Q11. Match List-I with List-II and select the correct answer using the code given below the Lists:

List I	List II
(Geographical feature)	(Type of geographic process)
A. Cirque	1. Erosional feature of wind

B. Yardang	2. Depositional feature of glacier
C. Barkhan	3. Depositional feature of wind
D. Drumlin	4. Erosional feature of glacier

Codes: A B C D

a) 4 1 3 2

b) 4 2 3 1

c) 2 1 3 4

d) 2 3 1 4

Q12. Which of the following pairs is incorrectly matched?

- a) Cirrus-Wispy, fibrous — Looking cloud which indicates fair weather
- b) High Clouds — 10000 to 15000 meters above sea level
- c) Cirrostratus — Thin white sheet type which gives the sun and moon their haloes
- d) Cirrocumulus — A thin cloud, often globular and rippled

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Q13. Which one of the following statements regarding water cycle is correct ?

- a) Only evaporation of surface water of rivers and oceans is responsible for cloud formation.
- b) Transpiration by plants does contribute to cloud formation.
- c) Underground water may also be connected to surface water.
- d) Rainfall does not contribute in maintenance of underground water table.

Q14. Match the following List-I & List-II:

List I	List II
A. Plucking	1. Wind
B. Deflation	2. Stream

C. Abrasion	3. Glacier
D. Attrition	4. Mutual friction of rock fragments

Codes: A B C D

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

Q15. Hekistotherms are plants growing in

- a) high temperature
- b) bright light
- c) very low light
- d) very low temperature

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Answers to the above questions :

Q1. Answer: (a)

Solar ultraviolet radiation undergoes absorption and scattering as it passes through the stratospheric layer of the earth's atmosphere.

The ozone layer, a region of Earth's stratosphere, absorbs 97-99% of the Sun's ultraviolet (UV) radiation. As a result, no UV radiation at wavelengths shorter than 290 nm reaches the surface of the earth.

Q2. Answer: (d)

If there is no carbon dioxide in the earth's atmosphere, the temperature of the earth's surface would be less than the present because carbon emission in the atmosphere is one of the major causes of global warming.

Q3. Answer: (c)

Maritime tropical (mT) air masses affecting North America most often originate over the warm water of the Gulf of Mexico, the Caribbean Sea, or the adjacent western Atlantic Ocean.

As expected, mT air masses are warm to hot, and they are humid. During winter, when cP air dominates the central and eastern United States, mT air only occasionally enters this part of the country.

However, during the summer, mT air masses from the Gulf, Caribbean, and adjacent Atlantic are more common and cover a much wider area of the continent.

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Q4. Answer: (c)

Q5. Answer: (b)

Bay of Bengal is the largest bay in the world. It finds a triangle in a shape and its bordered mostly by the eastern coast of India,

Southern west of Bangladesh and Sri Lanka to the west and Burma and the Andaman and Nicobar Islands to the east.

Q6. Answer: (b)

Q7. Answer: (c)

Q8. Answer: (d)

The ozone layer is a layer in Earth's atmosphere which contains relatively high concentrations of ozone (O₃). This layer absorbs 97-99% of the sun's high-frequency ultraviolet light, which is potentially damaging to life on earth.

Over 90% of the ozone in the earth's atmosphere is present here. It is mainly located in the lower portion of the stratosphere from approximately 15 km to 35 km above Earth's surface, though the thickness varies seasonally and geographically.

Q9. Answer: (d)

- **Troposphere:** This is the lowest atmospheric layer and is about seven miles (11 km) thick. Most clouds and weather are found in the troposphere.
- **Stratosphere:** The stratosphere is found from about 7 to 30 miles (11-48 kilometres) above the Earth's surface. In this region of the atmosphere is the ozone layer found.
- **Mesosphere:** The mesosphere is above the stratosphere. Here the atmosphere is very rarefied, that is, thin, and the temperature is decreasing with altitude.
- **Thermosphere:** The thermosphere starts at about 55 kilometres. The temperature is quite hot.
- **Exosphere:** The exosphere is the region beyond the thermosphere.
- **Ionosphere:** The ionosphere overlaps the other atmospheric layers, from above the Earth. The air is ionized by the Sun's ultraviolet light.

Q10. Answer: (d)

The temperature is just right for them to survive.

Q11. Answer: (a)

1. A cirque is an amphitheatre-like valley head, formed at the head of a valley glacier by erosion.
2. Yardang is a keel-shaped crest or ridge of rock, formed by the action of the wind usually parallel to the prevailing wind direction.
3. Barkhan is a crescent-shaped shifting sand dune convex on the windward side and steeper and concave on the leeward. It is an erosional feature of wind.
4. Drumlin is a long, narrow or oval, smoothly rounded hill of unstratified glacial drift. Drumlins are generally found in broad lowland regions, with their long axes roughly parallel to the path of glacial flow.

Q12. Answer: (b)

High Clouds : 6000 to 12000 meters above the sea level.

Q13. Answer: (c)

Underground water may also be connected to surface water through wetlands. Groundwater can flow into--or out of wetlands (springs or flowthrough wetlands) which may in turn flow into lakes and streams.

Q14. Answer: (a)

Q15. Answer: (d)

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