

1. Water vapour contains how much volume of the atmosphere?

- a) 0----- 3 %
- b) 0----- 4%
- c) 0----- 5%
- d) 0----- 6%

Answer-b) 0 - 4 %

In atmosphere the presence of water vapor varies from 0-4% by volume of the atmosphere depending upon the climatic condition of a particular geographical area.

2. Statements given below. Read it carefully and select correct statement/s.

- 1. The actual amount of water vapor present in the atmosphere is known as the absolute humidity.
- 2. The percentage of moisture present in the atmosphere as compared to its full capacity at a given temperature is known as the relative humidity.
- 3. Relative humidity is not affected by the change of Temperature of Air.
- 4. Dew point is a temperature at which saturation occurs in a given sample of air.
 - a) only 1 & 2
 - b) only 1, 2 & 3
 - c) only 1, 2 & 4
 - d) 1, 2, 3, 4

Answer-c) only 1, 2 & 4

Relative humidity is affected by the change of temp. of air. With the change of air temp. the capacity to retain moisture increases or decreases and the relative humidity is also affected. It is greater over the ocean and less over the continent.

3. Match the column

- | | |
|------------------------------------------------------|------------|
| 1. Thin & detached clouds having feathery appearance | A. Cirrus |
| 2. Black & Dark | B. Cumulus |
| 3. looks like cotton & wool | C. Stratus |
| 4. Layered clouds & covering large portion of sky | D. Nimbus |

Answer-c) A-1, B-3, C-4, D-2

4. Statement: When saturated air mass comes across a mountain windward side receive high rainfall where as leeward side receives very less/no rainfall.

Reason: when cloud ascends or rises, its temp. falls & moisture is condensed. where as when moisture laden wind descends its temp. increases and due to this moisture holding capacity also increases.

- a. Both A & R are true & R is correct explanation of statement.
- b. Both A & R are true & R is not the correct explanation of statement.
- c. A is true & R is false

d. A is false & R is true

Answer-a) Both A & R are true & R is correct explanation of statement.

When air rise, temp. falls that help in condensation, but when it descends its temp. rise, due to this moisture holding capacity also.

5. Condensation is influenced by the _____*

1. Volume of Air
2. Temperature
3. Pressure
4. Humidity

a. Option 1 & 2

b. Option 1, 2 & 4

c. Option 1,3 & 4

d. option 1, 2, 3 & 4

Answer- d.option 1, 2, 3 & 4

Influenced by Volume of air, Temp. pressure & humidity.

6. Koepper identified the a close relationship between _____ & _____

- a. Vegetation & Soil
- b. Vegetation & climate
- c. Vegetation & air pressure
- d. Rainfall & Humidity.

Answer- b) Vegetation & climate

Koeppen find closer relation between vegetation and climate.

7. Koeppen recognized _____ major climatic groups.

- a.3
- b.4
- c.5
- d.6

Answer- c) 5

Koeppen recognized 5 major climatic groups.

8. Source based questions.

Read the statements carefully and answer the question:

A greenhouse is made up of glass. The glass which is transparent to incoming short wave solar variation is opaque to outgoing long wave radiation . The primaryGHGs are CO₂, CFC, CH₄, N₂O & O₃.

Due to these greenhouse gasses ozone layer is depleting's people are facing many problems related to environment.

Which protocol is focused to protect the ozone layer?

- a. Tokyo protocol
- b. Kyoto protocol
- c. Osaka protocol
- d. Yokohama protocol

Answer-b) Kyoto protocol

Kyoto protocol was focused to protect the ozone layer.

9. Which year was the warmest year of the millennium ?

- a.1998
- b.1999
- c.2000
- d.2001

Answer-a) 1998

1998 was the warmest year of the millennium.

10. Statement/Assertion (A) According to WWF Gangotri is Shrinking 23 meters per year.

Reason (R) Human habitation is expanding near Gangotri.

- a. Both A & R are true & R is correct explanation of statement.
- b. Both A & R are true & R is not the correct explanation of statement.
- c. A is true & R is false
- d. A is false & R is true

Answer-c) A is true & R is false

Gangotri is shrinking because of global warming, not due to human habitation near gangotri.

