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Climate Questions for CDS Exams

Climate Quiz 2

Direction : Study the following question carefully and choose the right answer.

1. The westerlies have their origin in the

- A. Polar highs B. Subtropical highs C. Equatorial lows D. Sub polar lows

2. Mid-Latitude cyclones

- A. Usually move across North-America from East to West
B. Are generally found only over the ocean
C. Generally bring clear skies and little precipitation
D. Are formed in regions of strong temperature contrasts

3. Albedo effect would be relatively higher in

- A. Early morning and late evening B. Early morning only C. Noon
D. Late evening only

4. The humidity of air measured in percentage is called

- A. Absolute humidity B. Specific humidity C. Relative humidity D. All of these

5. Chinook is a

- A. Cold wind in Europe B. Tropical desert storm in West Asia
C. Warm wind in North America D. Depression to South Africa

6. What would be the influence on the weather conditions when in mid-winter a feeble high pressure develops over the North- Western part of India?

1. High and dry winds would blow outward from this high pressure area.
2. The Northern plain would become cold.
3. Scorching winds (locally called loo) would blow during the day time.
4. There would be torrential rains brought by thunderstorms.

Select the correct answer using the codes given below

- A. 1 and 2 B. 2 and 3 C. 3 and 4 D. All of these

7. On November 8, 2013, many people died in Philippines after a super typhoon ravaged the country. What was the name of the typhoon?

- A. Haiyan B. Utor C. Phailin D. Nesat

8. Which one among the following is responsible for formation of 'Ozone Holes' in the stratosphere?

- A. Benzopyrene B. Hydrocarbons C. Chloro Fluoro Carbons D. UV Radiation

Correct Answers:

1	2	3	4	5	6	7	8
B	D	C	C	C	A	A	C

Explanations:

1.

Westerly lie above the Subtropical high in Northern Hemisphere (30°N) and below the subtropical highs in the Southern Hemisphere (30°S), winds blow from the West towards the East. These winds are called Westerly winds. This is because it comes from West direction. The Westerly generally blow between 30° and 60° latitude in both the Northern and Southern Hemispheres.

2.

A **Mid-Latitude** cyclone is born in a region where there is a strong temperature gradient. These regions are characterized by lower pressures when compared to their surrounding environments.

3.

Albedo, or reflection coefficient, is the diffuse reflectivity or reflecting power of a surface. It is the ratio of reflected radiation from the surface to incident radiation upon it.

Albedo is higher in noon. It depends on the frequency of the radiation.

4.

Relative humidity is defined as the ratio of the partial pressure of water vapour (H₂O) (e_w) in the mixture to the standard vapour of water (e^*_w) at a prescribed temperature.

5.

A warm dry wind which blows down the east side of the Rocky Mountains at the end of winter is called the Chinook Wind.

6.

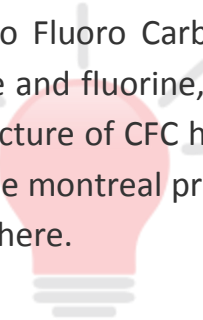
Remark:

7.

Typhoon Haiyan ravaged Philippines on November 8th, 2013. It affected the property and lives about 600 km from capital Manila.

8.

A Chloro Fluoro Carbon (CFC) is an organic compound that contains only carbon, chlorine and fluorine, produced as a volatile derivative of methane and ethane. The manufacture of CFC has been phased out (and replaced with products such as R-410 A) by the Montreal Protocol because they contribute to ozone depletion in the upper atmosphere.



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