

Date: 05/01/2024

Date: Sunday

Chapter: 5 Elements of weather

and Climate

Very short answer question

Q1: Define weather?

Ans: Weather is defined as the state of temperature, pressure, winds, precipitation etc. in the atmosphere at a given place and time.

Q2: How is weather different from climate?

Ans: Weather is defined as the state of temperature, pressure, winds, precipitation etc. in the atmosphere at a given place and time. While climate is the overall condition of temperature, pressure, wind, moisture etc. of a large area or region over a long period of time.

Q3: Name the factors that determine atmospheric pressure on Earth?

Ans: The factors that determine atmospheric pressure on Earth are temperature, density, height of place above the sea level and amount of moisture present in the air.

Ques 4: What is a wind?

Ans: Horizontal movement of air in response to difference is known as wind.

Ques 5: What do you understand by dew point?

Ans: The temperature at which condensation takes place is called the dew point.

Short answer questions:

Ques 1: What do you understand by the word climate?

Ans: Climate is actually the average weather condition over a large area for a long period.

Ques 2: What do you know about the 'frigid zone'?

Ans: Frigid zones lie at the poles and in this zone experiences extreme cold conditions. It is covered with ice and remains so throughout the year.

Ques 3: What factors affect the climate of a place?

Ans: Factors that affect the climate of a place are as follows: Temperature, pressure, humidity, winds, precipitation etc.

Ques 4: What are local winds?

Ans Wind which develop as a result of local difference in temperature and pressure as known as a local winds.

Ques 5 Define precipitation?

Ans Water droplets suspended in the clouds join together, grow in size and float in the air when air cannot hold them, they then fall down as rain drops. This process is called precipitation. rain, snow, sleet and hail are the different types of precipitation.

Ques Long answer question

Ques 1: What are periodic winds? Name two types of periodic winds?

Ans These wind blow a certain period in a particular direction. monsoons are also periodic winds. The main types of periodic wind are the monsoon wind, the and sea breeze.

Ques 2: What is the difference between weather and climate? mention any two features?

Ans Weather and climate: We use different terms like hot, cold, sunny, cloudy, windy, rainy.

etc. to describes the weather conditions. actually we explain the condition of the atmosphere with respect to air temperature pressure moisture and wind. These are the main elements of the weather. weather is defined as the state of temperature, pressure winds, precipitation, etc in the atmosphere at a given place and time. weather should not be confused with climate is the average overall condition of temperature, pressure, wind moisture, precipitation, etc. of a large area or region over a long period of time. Climate is actually the average weather condition over a large area for a long period of time. the change of weather is a continuous phenomena but the climate of a place remains more or less the same year after year. temperature, pressure, humidity, winds precipitation etc are the element of weather and climate.

Ques 3 How is atmospheric temperature determined?

Ans Weather is defined as the state of temperature pressure precipitation etc in the atmosphere at a given place and time. while climate is a average over all condition of temperature pressure wind etc. of a large area or region over a long period of time.

Ques. On what factors does the distribution of temperature over the Earth's surface depend upon? Write three factors?

Ans. The various factors which control the temperature of a place are as follows:
(i) Latitudes (ii) Altitudes (iii) Season

Ques. Define the three types of rainfall?

Ans. Rainfall is the most important form of precipitation. Rainfall can occur in the following ways: conventional rainfall, orographic rainfall and cyclonic rainfall.

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