

10-11-2021

Homework

Climate

Q1. Describe the El Niño mechanism in your own words.

Ans:- 1. Generally, a cold ~~water~~ ocean current flows past the western side of the countries present in the Pacific Ocean.

2. But once in every ~~5~~ ~~to~~ 5 years this phenomenon changes.

A warm ocean current flows past the Peruvian coast instead of the cold Peruvian current. This is known as El Niño.

3. ~~The~~ The presence of the El Niño reduces the intensity of the trade winds and ~~it~~ leads to an increase in ^{this creates a low pressure attracting moisture} sea-surface temperatures.

4. Therefore, once in every 5 years, the western ~~side~~ ^{rich winds from high pressure areas.}

part of all the countries receives rainfall.

5. Due to El Niño, deserts which are present on the western side of the countries, are able to receive rainfall.

Q2. How does the presence of Tibetan plateau influence the arrival of monsoon in India?

Ans: 1. Tibetan plateau is an elevated land which has a height of 9 km above sea level.

2. ~~The~~ The Tibetan plateau gets intensely heated during summer due to its broad surface and high elevation.

3. This results in strong vertical air currents and the formation of low pressure over the plateau.

4. This low pressure area attracts ~~is~~ moisture rich winds from high pressure areas and causes

rainfall in India.

Q3. What are 'Jet Streams'?

- Ans:
1. Jet streams are a narrow belt of high altitude westerly winds in the troposphere.
 2. Their speeds varies from about 110 km/h in summer to about 184 km/h in winter.
 3. Jet streams are also an important factor affecting India's climate.