

## HOME ASSIGNMENT

Date

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Q1 Describe the El Nino Effect Mechanism in your own words? (4)

- El Nino is a natural phenomenon in which a warm ocean current that flows past the Peruvian Coast, in place of ~~every~~ <sup>the</sup> cold Peruvian current, every 2 to 5 years.
- The changes in pressure conditions are connected to the El Nino. Hence the phenomenon is referred to as ENSO
- This is a name given to the periodic development of a warm ocean current along the coast of Peru as a temporary replacement of the cold Peruvian Current
- The presence of the El Nino leads to an increase in sea-surface temperatures & weakening of the winds in the region.
- The warmer water cause the Pacific jet stream to move south of its neutral.
- With this shift, areas in the Northern US & Canada are dryer & warmer than usual.
- But in the U.S the Gulf coast & Southeast, these periods are ~~wet~~ wetter than usual & have increased flooding

2. How does the presence of Tibetan plateau influence the arrival of monsoon in India? (3)

- The Tibetan plateau gets intensely heated during summer.
- It results in strong vertical air currents.
- The formation of low pressure over the plateau at about 9 km above sea level.

3. What are Jet Streams? (2)

- Jet streams are a narrow belt of high altitude (above 12000 m) westerly in the troposphere.
- Their speed varies from about 110 km/h in summer to about 184 km/h in winter.
- A number of separate jet streams have been identified. The most constant are the mid-latitude & the sub-tropical jet streams.