

Doge N 6 what are jet strooms & how do they affect the climate of India ? got streams are a narricco belt of high altitude (above 12,000m) westerly winds in the troposphere those speed wies from about 110 km/h in Summer to about 184 km/H in winter. A number of jet stocams exist had the most constant one the mid bittude 8 the Sub-tropical westerly get Stream. The fet streams located over 27° - 30° north britudes are known - as Subtrapical westerly get Streams. There got Tet Streams blow South of the Himalogas through out the year except in Summer. These are suspensible for the western cyclonic distructionces experienced in the north 3 north mestern barts of the country. These get streams move north of the Himaloyas with the apparent migration the Sur During the Summers at about 14°N, an easterly jet Streams called the Subtropical contexty get Storan blows ower peninsular Tudo @ Define monoons. What do you understand by break" in monoon? The coord monsoon has been derived from the Arabic word 'mousin' which means season. In this season the winds ball blow from land to see you 6 months & from see to land you 6 months. This break in the monsoon war takes place only low Jew days at a time! These breaks are related to the movement of the monsoon though when the axis of the Monsoon trough lies over the plains, then the viainfall is beauter there when the trough moves towards the Himalayas, the plains are day but there is heavy trainfall occur over the mountains (3) why is the monsoon conidered a unifying bond?

wife watched " Signingamaking dove, become The subscentinent of India has a great variation intemperature conditions despite the moderating in fluence wested by other Loctors. The Mansoons have a unifying influence as the sialifall that is coused affects the entire country water is thus Supplied for agriculture artisities as well as to the sincere for use all over the Country The Monsoon their bind the entire continent, where all wait eagerly love ude their avrival. 0-3 why does the vainfall decrease from the east to the west in Northern India? -> The low-pressure area in India Iles in the northwest, toward which the southwest Monsoon winds are attended. After depositing Mosture In South undia, the Bay of Bengal branch of the Southwest Monston Strikes the Khani- Good Hills, After cousing heavy mainful on the wind could stopes, these wints twen westwards because of the presence of the bely Himalayas. These winds then Keep depositing uninful they go up the change valley towards the low - pressure area. The rainful deposited thus keeps on decreasing as the winds proceed from Cart to west in Northern India, as this is the last segion to be affected by the Monsoon. Q-Q Give veason as to why 8-B) Soasonal reversal of wind direction takes place over the Indian Subcontinent? 5 Gooling Varies. The indian Subcontinent is Surrounded by water on three Sides. To Summer the land mak of India is down pressure. The Sea is cooled, there by having higher pressure. So the winds blow from Soa to land in winter

Doge No. the land has high pressure while the Sea has lown pressure. Therefore, the winds blow towards the Soa. Thus a seasonal sieversal of wind direction takes place (ii) The hulk of vainfall in India is concentrated over a few months. To India the bulk of the visinfull is contentrated over a few mouths. The main source of rainful is the monsoon wind which Hows when there is intense low pressure on the land. The Sworounding mater body is cool & has high prossure. This ideal temperature & pressure is caused in May, when the main falls botween june - September & it becomes cooler (high pressure). Rest of the year is practically day. citis The tomil Nodu coast receives winter rainfall winds. - During the winter Season the Tamil Nadu coast madines main from the north east Monsoon which blow from land to Soa. They don't cause any main in the norther port of the country But while coossing the Bay of Bengal they hickup Moisture & cause main on the eastern coast of South Tridia, mainly the Tamil Node coast. iv) The delta vegion of the eastern coast is frequently stouck by Cyclones. cyclones as the low pressure conditions over north western There then cross the eastern coast causing heavy widespread arain leading to great damage to life 8 property

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Relief Mountains they an important orde in the distribution of sminfall in India. The Moisture Jaden winds (Southwest Monorous) cause heavy main on the windward slopes of the western (what's & Khasi- Garo hills. As the winds cross over to the Jeoward slopes, there is less mainfall as most of it has been deposited on the Slopes found the winds. All the area on the Jeoward Side is deposited of main & is drought prone. Rajorthan also lies in the vain Shadow of the Aravall hills.

B Describe the viegional Variations in the climatic conditions of india ... Those is a great viegional variation in the climatic conditions of tidia (mainly temperature & scainful). In Summor, the temperature visces above 50°C in Some parts of Rajarthan while in Jammu & Kashmir it is about 20°C. The temperature in Dears during winters goes down to even minus 45°C while at Thiswana who huram it is a 22°C. The precipitation varies from over 400 cm in Meghalaya to less than 10 cm in lodgeth & western Rajarthan while the precipitation. In most of Tudio is in the form of vain, the Mountains experience Snowfall. The larger hard of the Country vectives wain between june to September larts of Tamil Nadu receive vain between yone to September to Optember Courtal vegions have a moderate climate whereas area in the interior have an extreme or continental

B Discuss the mechanism of Monsoon.

The following facts are important to understand the Mechanism of the Monsoon.

Dage No 1) The difference In the heating & cooling rate of land & water bodies in Summer there is low transcere on the land & high heressure on the Soa. 21 The Shift of the position of the Intex. Tropical Convergence Zone in Summer over the Northern blains (its normal hosition is about 5°N of the Equator) 3 The presence of the high - pressure area, east of Madagascar affects the Indian Monsoons. 4) The intense heating of the Thotan plateau in Summer cousing low pressure 5) The Movement of the westerly & conterly get Streams over the Indian peninsular during Summer 3 aire an account of weather Conditions & characteristics of the cold seasons. -> During the Cold Soaron, the Skips are clear, temperature 3 humidity are low & the winds are feeble & revariable The temperature is higher in the South due to the moderating Influence of the Sen but devicases as one goes north worlds where it wanges between 10 8 15°1. Front is common in the north & there is snowfall in the higher Stopper of the Himalayar. Winds blow from waland to sea I are day except when they hick up Mastura from the Bay of Bengal & cause mainfall in Tamil Nadle A characteristic feature of the cold weather season is the

where family the done Dage No. 11 The difference in the heating 8 cooling rate of land 8 water bodies in Summer there is low bruscure on the land & high Medi heressuro Pn the Soa. 21 The Snift of the position of the Tuter. Tropical Convergence Zone QHOI in Summer over the Northarn plains (its normal (3) 6ºv position is about 5°N of the Equator) 3) The presence of the high - pressure area , past of Madagascar (0) No affects the Indian Monsoons. 4) The intense heating of the Thatan plateau in Summer oth cousing low pressure 5) The Movement of the westerly & conterly get Streams over the Indian peninkular during Summer. @ arue an account of weather Conditions & characteristics of the cold socions. -> Daving the Cold Scaron, the Skies are clear, temperature & humidity one low & the winds one feeble & covariable The temperature is higher in the South due to the moderating influence of the Sea but decreases as one goes north wands where it ranges between 10'8 15°C. Front is Common in the north 8 there is snowfall in the higher Stoppes of the Himalayas. Winds blow from woland to Soo I are day except when they pick up Moisture from the Bay of Bengal & cause uninfall in Tomil Nadle A characteristic feature of the cold weather sonon is the

cause It was a new experience hexistated to eat food with bocours He felt he was not the family Jour - pressure System which enters northwest India from the Mediterrancan Sea. There are also known as the temperate or mesterly depression (ydones & come winter soin & Snowfall in the hills/Mountains. The rain is beneficial for the growth of 'Rabi' crops 3 Give the characteristics & effects of the promoon rainful in India => The Monsoon Main has contain characteristics which make itunique (0) Monsoon winds are unreliable, as the exact time of arrival eleparture is not the same your after year. (b) The rainfall us uneverly distributed Contain areas rareing heavy rainfall (window and stopes of the western cohots) while in other areas the rainful is less (Than Desert). Lowing foods & droughts co The Manioon rain is concentrated within the thereo months ( June - September) of the year while the overt of the year is more or loss day. (d) There is a seasonal reversal of winds. Then Monsoon rains are important in Tudia's its effect can be seen when they arrive. All over the country people eagerly wait for its orival. The formers are ready to sow their seeds & the ogricultural assertes activities begin water is provided to the vivous which carry it to different houts of the Country Plants 8 animals requienate with the Coming of the Monsoon. The Supply of water through viveres is very important you the generation of power.