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DATE \_\_\_\_\_

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### Assignment-1

1. Describe how altitude affects the climate

→ Altitude affects the climate as when altitude increases, temperature decreases and when altitude decreases, the temperature increases. And, in every 160 to 165 m altitude, temperature decreases by  $1^{\circ}\text{C}$ . This is the way that altitude affects the climate.

2. Explain the relation between climate and distance from the equator.

→ Equator is an imaginary line which passes from east to west through the center of the earth and it lies at  $0^{\circ}$  latitude. ~~therefore~~ This is the where the sun rays are direct. Which ~~mean~~ means equator is hot region. So And, if we go far from equator it is cold. So, this



affects the climate. ~~as~~ Foreg: if a place is far from equator it is cold and if it is near to equator, it has hot climate. So, distance ~~between~~ from equator affects climate in this way.

3. ~~Make a chart to sh~~ Define monsoon and enlist any three advantages of it.

→ Monsoon is a seasonal wind which ~~changes the~~ can cause heavy rainfall during summer and dry ~~and~~ no rainfall during winter.

→ The advantages of monsoon are;

- It provides water for farming and production of crops.
- It makes the climate cool in summer.
- It provides water for generating hydroelectricity.

4. Define doldrums. Why do these regions have maximum temperature?



- Tropicums are the regions which are  $30^{\circ}\text{N}$ ,  $30^{\circ}\text{S}$  from the equator which are very hot.
- These regions have maximum temperature because they are near the equator which means that they get direct sun rays which are hot.

5.) List out the types of climate on the basis of rainfall.

→ The types of climate on the basis of rainfall are;

- a) Equatorial Climate
- b) Tropical Climate
- c) Semi-Arid Tropical Climate
- d) Arid Climate
- e) Dry-Mediterranean Climate
- f) Mediterranean climate
- g) Temperate climate
- h) Polar/Alpine Climate



6) List out the types of climate ~~of~~ on the basis of temperature.

→ The types of climate on the basis of <sup>temperature</sup> ~~climate~~.

- a) Tropical climate
- b) Sub-tropical climate
- c) Temperate climate
- d) Cold climate
- e) Polar / Alpine climate

7. Differentiate between climate weather and climate.

→ Weather	Climate
- The specific atmospheric condition of a particular place at a particular time is called weather.	- It is the average atmospheric condition of a place over a long period of time.
- The weather of a place may vary <sup>at</sup> morning, noon and evening.	- The climate of a place remains same throughout the year.



8. Explain why it rains maximum in Pokhara valley?

→ It rains maximum in Pokhara valley because Pokhara valley lies in the windward slope of Annapurna Range.

9) Why there is no rainfall in Mustang?

→ There is not rainfall in Mustang because it lies in the leeward slopes.

10. Explain how monsoon rain occurs in Nepal.

→ The summer monsoon winds which bring rainfall in Nepal during summer come from the Bay of Bengal which lies to the south-east from Nepal. So more rainfall occurs in the east and gradually decreases to the west. Summer Rain occurs Monsoon rain in Nepal is mostly on the mid-monsoon seasons. In Nepal, the Indian Summer Monsoon is dominant.

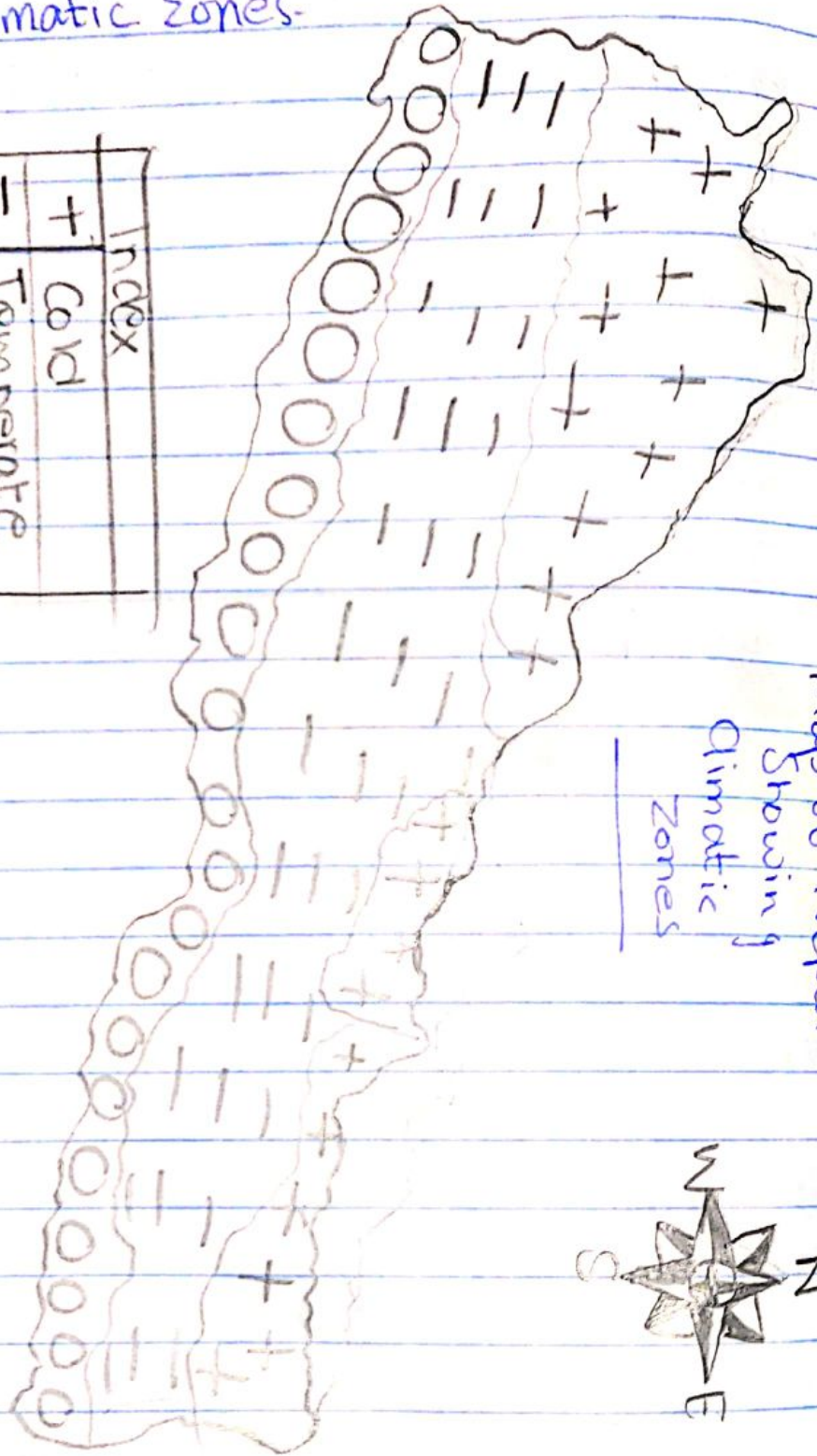
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## Contd. Weather & Climate

11. Draw the map of Nepal and locate the climatic zones.

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+	Cold
-	Temperate
0	Subtropical



Map of Nepal  
Showing  
Climatic  
Zones

