

KLINE MEMORIAL SCHOOL of UBS
GEOGRAPHY WORK SHEET 1
CLASS IX 2020- 2021

Date: - 09 / 05 /2020

Chapter 2: - Latitudes and Longitudes

- You have done this in your junior classes. But now it is in a little more details. We will do the first half of the chapter. ie Latitudes, and introduction to Longitudes in Work Sheet No 1.
- The framework of the intersection of Latitudes and Longitudes is known as the Geographic Grid.
- Learn any three features of Lines of Latitudes.
- Main Latitudes with their degrees is important.
 - Equator – 0°
 - Tropic of Cancer: - $23 \frac{1}{2}^{\circ}$ North
 - Tropic of Capricorn: - $23 \frac{1}{2}^{\circ}$ South
 - Arctic Circle: - $66 \frac{1}{2}^{\circ}$ North
 - Antarctic Circle: - $66 \frac{1}{2}^{\circ}$ South
 - North Pole: - 90° North
 - South Pole: - 90° South
- There are 90 Latitudes in the North Hemisphere and 90 Latitudes in the South Hemisphere.
- Length of the Equator = Circumference of the Earth. Since circumference of a circle is 360° so 1° is = 111 Kilometer.

USES OF LATITUDES Important

- 1 Location of a place North and South of Equator.
- 2 Heat Zones: - Diagram is very important.
 - The three Heat Zones depending on the distance from the Sun and the inclination of the Sun's rays. This controls everything.
 - The Equator is the longest Latitude which divides the earth into two equal halves- Northern and Southern Hemispheres.
 - It was Erasthenes, the Greek Philosopher who devised Latitudes and Longitudes.to locate places on the Earth, directions and calculated the circumference of the Earth.
 - The short answers questions are very easy and need no explanation.

Extra Questions: -

1. Explain why there are no higher latitudes than 90°
 - Latitude is the angular distance from the plain of equator. All the circles or planes make a maximum angle of 90° .

2. What are the limits of the Tropical Zone, Temperate Zone.?: - From where to where in degrees.
3. Why are places in the Torrid Zone, hotter than the other zones ?
 - Torrid Zone receives direct rays of the Sun throughout the year where as the Temperate Zone receives slanting rays and Frigid Zone Very slanting rays.
4. Latitudes are always expressed in angles.
 - Earth is a sphere and any line drawn around the earth is a circle. It tells us the angle between the centre of the earth and a given spot on the globe.

Longitudes

- Definition of Longitude.
- Any three characteristics of Longitudes.
- Diagram: - Lines of Longitude--- Important
- Like how the Equator divides the earth into two equal halves northern and southern hemispheres, similarly the Prime Meridian is a longitude of 0° which also divides the Earth into Eastern and Western hemispheres.
- Some centre point from where the earth could be divided had to be taken. It was taken from a very small town called Greenwich [pronounced Grenich] Near London.
- The distance between each longitude is 111km.
- There are a total of 180 longitudes on either sides of the Prime Meridian. So the 180 and 0 are common to both the Eastern and Western Hemispheres.
- Since the earth rotates from the east towards the west, countries in the eastern hemisphere see the sun rays first.
- Longitudes have a very close relationship with TIME – within the country and other countries.
- **We will continue from Longitude and Time in the Text Book in the next work sheet.**
- Complete the Short Answers with appropriate diagrams and file you answers properly. Marks will be given.
- I am sending you a simple video link on Latitudes and Longitudes. Please see it.
- To Be Continued.....

<https://www.youtube.com/watch?v=-XWwyCLUWVw&feature=youtu.be>