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Assignment Code 62457

Classroom Assignment Sheet

Name: Subject: Geography Batch: 18-30 Submission Date: 27.06-23 Marks:

Please mention Reg. No. and Assignment code of respective class. Use single assignment sheet (i.e. 2 pages) for 1 question. Limit your answers to 150 - 170 words.

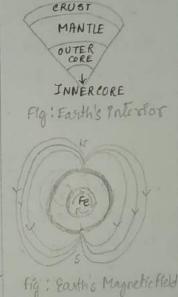
D. what do you understand by Geomagnetism? what causes this (250 mords) phenomenon!

Geomagnetism is the magnetic field associated with Earth. Earth has outer rocky mantle below which lies liquid outer core surrounding solid Inner core. This liquid nature of outer core and also the presence of charges (Fe) generates the magnetie field.

Causes of this Phenomenan

Rotation of Earth

convection current In Core



- 9) Rotation of Earth: Causes the motion of charged particles on the outer core.
- 11) Convection Currents: Heat tising from the Inner core results in convection currents generation of molten material In the outer core. · Also Influences the direction of magnetic field

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The motion of the charged particles in the mollen material produces electric current through the Earth's outer core hase currents result in magnetic field around Earth through Electro- magnetism.

## Enidence:

the historical stady of Earth's magnetism through rocks, called as palaeomagnetism, provides amportant data regarding the polarity of minerals Geomagnetism by the mineral alignment.

from the Sea floor spreading theory, Harry hess recorded the constant movement and spreading of tooks on & oceanfloor. Inexprocks have magnetism because as they cool down, magnetic minerals align with respect to the Earth's magnetic field.

The magnetic poles have moved steadily over lime (Polar wandering) and may get reversed as well due to reversal of convection currents on outer core. The magnetic field 98 important because it protects the earth against harmful radiations and also causes phenomenon like Aurora.