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(7A) 19th March

(A) Shape of the earth and Rotation and Revolution

Q.1 Why is earth called geoid?

ans. The shape of the earth is not completely circle. It is slightly flattened at the poles and bulging at the equator. This flatness at two ends and bulging at equator is known as geoid.

Q.2 What is earth's rotation?

ans. The axis of the earth is an imaginary line joining the two poles through the centre of the earth. The spinning of the earth on its axis is known as earth's rotation.


Q.3 What is earth's axis?

ans. It is an imaginary line. The earth completes its one rotation on its axis in 24 hours. The earth has seasons because of its axis.

Q.4 What do understand by the term circle of illumination?

ans. The circle of illumination is a line separating day from the nights. During rotation, at any given time, half of the earth receives solar radiation causing daylight and the other half of the earth is dark in the absence of sunlight. Thus the dividing line between day and night is known as circle of illumination.

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✓  sun rise in the east

✓ earth's revolution

✓ how long does earth takes to revolve Page No.:

✓ Effects of Rotation ← Day, Night, Wind

✓ Effects of Revolution ← Seasons, Heat Zones

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Q5. Why do we say that the sun rises in the east?

ans The earth rotates from west to east. That is why the eastern hemisphere faces the sun first, and we call that the sun rises in the east.

Q6. What is earth's revolution?

ans Earth spins around its axis and it is called earth's rotation. At the same time, it also orbits, or revolves around the sun. The revolving or orbiting around the sun is known as earth's revolution.

Q7. In how many days earth completes its revolution?

ans The earth completes its one full revolution around the sun in 365 days and 6 hours.

Q8. What are effects of earth's rotation and revolution?

ans Rotation Effect:-

- (i) Rotation causes day and night.
- (ii) Rotation affects the movement of water in the oceans.
- (iii) The speed of rotation also affects the movement of the wind.

Revolution Effect:-

- (i) Revolution causes seasons on the earth.
- (ii) Revolution also creates particular heat zones on the earth surface.

Q9. What is Equinox?

ans When the sun rays are straight over the equator, it causes equal day and equal night. Equinoxes take place twice a year. One is about 21st March and 23rd September every year.

- ✓ EQUINOX
- ✓ SOLSTICE
- ✓ DIAGRAM

Cancer - कर्क - Crab
 Capricorn - मकर

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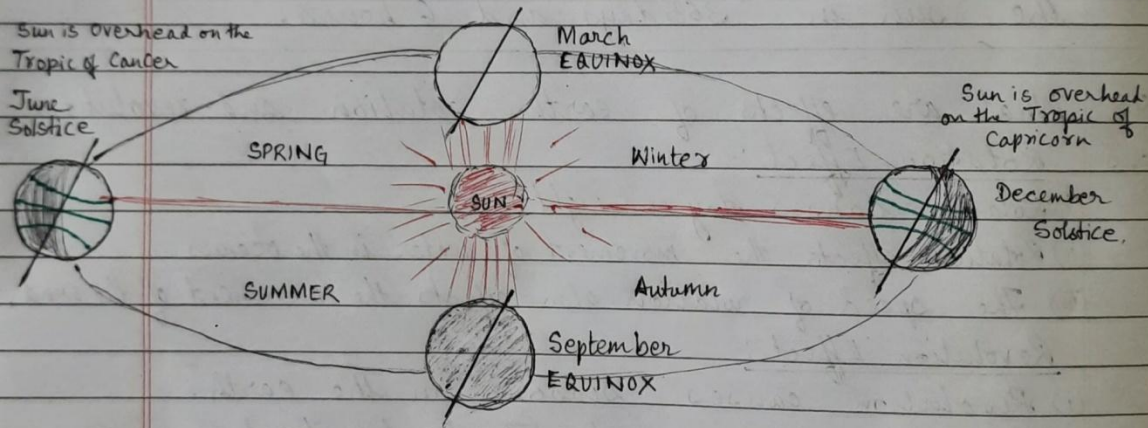
Q.10. Differentiate between summer solstice and winter solstice.

and Summer Solstice

- On 21st June, the sun rays are vertical at the Tropic of Cancer. It is called Summer Solstice in the northern hemisphere.
- It is day of longest day time and shortest nights in the northern hemisphere.
- It is summer in the northern hemisphere.

Winter Solstice

- On 22nd December, when the sun rays are vertical at the Tropic of Capricorn. It is called Winter Solstice in the southern hemisphere.
- It is day of shortest day time and longest night in the southern hemisphere.
- It is winter in the southern hemisphere.



Q.11. Draw a neat diagram showing Equinoxes and Solstices.