

GK-1 2017

Q.4.(c) Briefly explain what effects are produced due to Rotation & Revolution of Earth. (Marks 5)

Answer

Rotation of Earth:

The movement of Earth around its axis is called rotation of Earth. Earth complete its rotation in 24 hours.

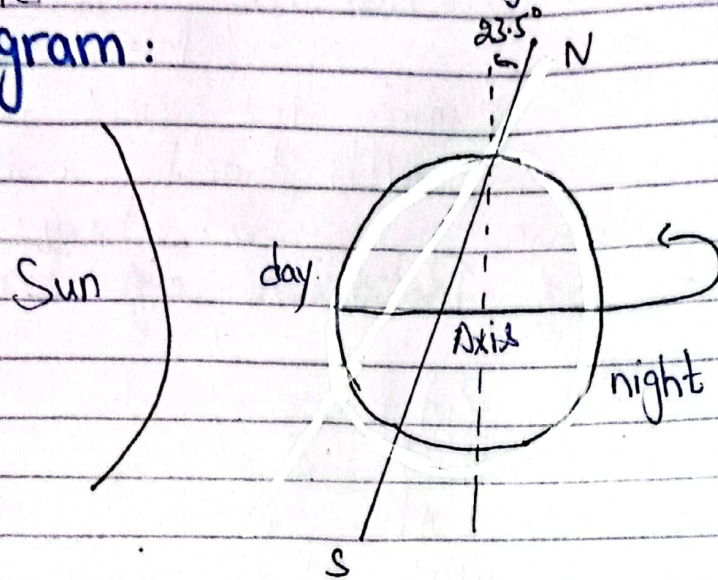
Effect of Rotation of Earth:

One of the effect of Rotation of Earth is Coriolis Effect. That is the continuity of rotation of Earth in the same direction causes the deflection in flow paths of both wind and ocean tides. The deflection is in right direction in Northern Hemisphere and left direction in Southern Hemisphere. This is called Coriolis Effect.

Undoubtedly, one of the most important effect of rotation of Earth is the occurrence of day and night. The part of Earth facing sun, experience daytime and part which not facing sun, experience nighttime. The rotation of the Earth also cause the occurrence of ocean tides. The part of Earth near the Moon cause high ocean tides as

compare to part which is far away from the Moon. The other effect of rotation is that it cause bulge in the centre.

Diagram:



Revolution of Earth:

The movement of Earth around the Sun in fixed path called Revolution of Earth. Earth complete its revolution in 265 day, 5 hour, 48 minutes and 46 seconds.

Effect of Earth's Revolution:

The motion of Earth around the Sun is not in circle rather than in ellipse. Therefore, Earth-Sun distance is varying at different stage. While varying in distance it is not causing the seasonal change, the additional two factor

known as inclination and polarity, play an important role in changing of season along with the revolution of Earth.

Diagram:

