

ASSIGNMENT

Question 1: Very short answers:

- a) What do you mean by Rotation?
- b) What do you mean by Revolution?
- c) Define Circle of illumination.
- d) What is Orbit plane?
- e) How many days does the Earth take to revolve around the sun?
- f) When the Southern hemisphere has summer solstice, what does the Northern hemisphere have?
- g) What is the angle of inclination of the earth's axis with its orbital plane?
- h) What do you meant by Equinox?
- i) What is the shape of the earth's orbit around the sun?

Question 2: Short answers:

- a) What is a Summer solstice? Describe in few words.
- b) When does the earth experience equinox?
- c) What is a Leap year? Define it.
- d) Why do seasons change?
- e) What is the reason that the poles of earth have six months of day and six months of night?
- f) What is a Winter solstice? Describe in few words.
- g) What do you mean by Earth day? Define it.
- h) Why does the Southern hemisphere experience winter and summer solstice in different times than that of the Northern hemisphere?

Question 3: Distinguish between the following:

- a) Summer solstice and Winter solstice.
- b) Northern hemisphere and Southern hemisphere.
- c) Solstice and Equinox.
- d) Rotation and Revolution.

Question 4: Describe the process of Rotation of the earth with a diagram.

Question 5: What will happen if the Earth did not rotate?

Question 6: Describe the process of Rotation of the earth with a diagram.

Multiple Choice Questions:

1. If 2012 is a leap year, which will be the next leap year?
 - a) 2015
 - b) 2016
 - c) 2017
 - d) 2018
2. Christmas is celebrated during the summer season in:
 - a) New Zealand
 - b) Canada
 - c) Switzerland
 - d) Italy
3. Seasons change due to change in the position of the:
 - a) Earth around the Sun
 - b) Earth around the Moon
 - c) Sun around the Earth
 - d) Sun around the Moon
4. The longest day in Southern hemisphere is on:
 - a) 22 March
 - b) 21 June
 - c) 22 September
 - d) 22 December

5. At the time of equinox rays of the sun falls direct on the:
- Equator
 - North pole
 - Tropic of Cancer
 - Tropic of Capricorn
6. Earth rotates from _____.
- East to West
 - West to East
 - North to South
 - South to North
7. The circle that divides the day from night on the globe is called:
- Degree of inclination.
 - Orbital plane
 - Circle of light
 - Circle of illumination
8. If the earth did not rotate the portion of the earth facing the sun would always experience:
- Day
 - Darkness
 - Night
 - Twilight
9. Which of the following enjoy equal day and night throughout the year?
- Tropic of Cancer
 - Tropic of Capricorn
 - Antarctic Circle
 - Equator
10. Due to spherical shape of the earth only _____ of it gets light of the sun.
- One-fourth
 - Half
 - Three-fourth
 - One-fifth