

5. When does the Summer solstice in the Northern Hemisphere occur?
 - A. March 21
 - B. June 21
 - C. September 23
 - D. December 22
6. Which is the farthest point to the sun in the orbit of the Earth?
 - A. aphelion
 - B. perihelion
 - C. solstice
 - D. equinox
7. How many degrees of latitude are there on the Earth as a whole?
 - A. 90
 - B. 180
 - C. 181
 - D. 360
8. What was the theory put forward by Claudius Ptolemy in AD 140?
 - A. The Theory of Rotation
 - B. The Theory of Revolution
 - C. Heliocentric Theory
 - D. Geocentric Theory
9. What is the name given to the imaginary line running through the centre of the earth from the north pole to south pole, on which the Earth spins?
 - A. Equator
 - B. Axis
 - C. Latitude
 - D. Longitude
10. How many days are there in a leap year?
 - A. 365 days
 - B. 366 days
 - C. 365 and $\frac{1}{4}$ days
 - D. 366 and $\frac{1}{4}$ days

II. Answer the following questions in two points. (2 x 5 =10)

1. Why do we get to see only one side of the Moon from the Earth?
2. Write two differences between the stars and the planets.
3. Why is the time in Bangladesh half an hour ahead of Indian Standard Time?
4. Write two differences between summer solstice and winter solstice.
5. Define the following:-
 - (a) Asteroid
 - (b) Equinox

III. Answer the following questions in four points. (4 x3 = 12)

1. What will happen if the Earth fails to rotate?
2. Why is standard meridian important for a country?
3. Define latitude? How are the latitudes and longitudes useful to us?

IV. Answer the following question and draw the diagram. (3 x1 = 3)

1. Draw a neat and labeled diagram showing the temperature zones of the Earth. Which is the hottest zone?

OR

Draw a neat and labeled diagram to show the different positions of the Earth during its revolution around the Sun and write the names of four seasons.