# KALPAVRUKSHA MODEL SCHOOL

## Answers of Assignments-6

**Class: VIII** **Sub: Physics** **Date: 25.06.2021**

**Topic: STARS AND SOLAR SYSTEM**

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**I Answers:**

1. **Define constellations?**
   ANS: The group of stars which appears to form some recognizable shape or pattern is known as a constellation.

2. **Why do stars appear to move from East to West?**
   ANS: The stars appear to move in the sky from east to west direction, this apparent motion of the stars in the sky due to the rotation of the earth from west to east on its axis. When the earth moves or rotates on its axis from west to east then the stars in the sky appear to move in the opposite direction that is from east to west.

3. **Why does the pole star not appear to move?**
   ANS: The star which appears stationary from the earth is a pole star. It appears to be stationary and does not change its position with time because it lies on the axis of rotation of earth which is fixed and does not change with time. Pole star remains fixed at the same place in the sky in the north direction. So it is also called north star,dhruva Tara or Polaris.

4. **Name a constellation which can be seen**
   (a) During summer –Ursa major
   (b) During winter.- Cassiopeia.

5. **How can we locate a pole star using the constellation Ursa Major?**
   ANS: Now look at the two pointer stars at the Ursa Major constellation. Imagine a straight line drawn through the two pointer stars of the Ursa Major constellation. Extend this imaginary line towards the north direction in the sky. This line will lead to a star which is not very bright. This star is the Pole star.

6. **The star which appears stationary is _____.**
   a) Sirius b) pole star c) Andromeda d) Orion

7. **A group which forms a definite pattern is called_____.**

a) comet b) constellation c) meteor d) meteoroid