

Chapter - 17

CLASS-8
Science

- B. 1. (d); 2. (b); 3. (b); 4. (c)
- C. 1. Orion; 2. Earth; 3. Uranus; 4. Mars
- D. 1. (e); 2. (d); 3. (b); 4. (a); 5. (c)
- E. 1. Venus; 2. 76; 3. Venus; 4. Asteroids, Mars, Jupiter
- F. 1. False; 2. True; 3. False; 4. False
- G. 1. Planets are heavenly or celestial bodies moving around the Sun. There are eight planets in the solar system.
2. Constellation : Constellation is a group of stars forming a recognisable shape or pattern.
Meteors : Meteors are very small objects whose eccentric orbits can bring them into the Earth's atmosphere.
3. Artificial satellites are man-made objects which revolve around the Earth.
4. The universe is everything that exists – stars, planets, moons.
- H. 1. See answer on Page No. 212
2. Jupiter is the biggest planet of the solar system and is more massive than all the other planets combined. Its mass is 300 times the mass of Earth. It rotates faster than any other planet. It is also very cold and is often referred to as the icy giant of the sky.
3. Orion Constellation : Orion is also called the hunter. Its Indian name is Mriga. It has seven bright stars. Four bright stars mark the shoulder and three stars mark its belt.
- Ursa Major : Ursa major is referred to as a summer constellation. It can be seen clearly in the northern part of the sky during the month of April. Its shape seems to form the outline of a great bear and also resembles a large ladle or a question mark. It contains seven bright stars.
- See Page No. 214 – for Diagram of Orion
4. Comets : Comets are the ball of frozen gases, dust particles and rocks that follow a regular orbit around the Sun. Comets appear as a bright head with a long tail. When a comet enters the Earth's atmosphere, it burns up. Halley's comet made its last two appearances in 1910 and 1986. It is again expected to be visible around 2062.
- I. 1. Moon takes the same time as Earth to revolve round the Sun as well as to spin or rotate, once about its own axis.
2. Earth has atmosphere, water and sunlight for which life exists.