

## Short Answer Questions

### Q.1. What are stars?

**Ans.**

- i. Stars are the heavenly bodies which are extremely hot and have their own heat and light.
- ii. They continuously radiate heat and light energy in the space.
- iii. A star is made up of hydrogen and helium gases and the dust. The heat and light energy is generated by burning of these gases.

### Q.2. What are the various types of stars?

**Ans.**

- i. It is surprising that sun is not the biggest star in the universe. It is only a medium-sized star. It looks big because of its nearness to the earth (150 million kilometres).
- ii. Other bigger stars are far away from our earth due to which they look smaller than the sun.
- iii. Stars account for about 98 per cent of the matter in a galaxy dust.

### Q.3. Describe the sun.

**Ans.**

- i. The sun is the centre of solar system.
- ii. The surface temperature of the sun is about 6000° Celsius.
- iii. It is huge and made of extremely hot gases.
- iv. It provides the pulling force that binds the solar system.
- v. The sun is the ultimate source of heat and light for the solar system.
- vi. The sun is about 150 million kilometres away from the earth.

### Q.4. Define Geoid and give reason for life on earth.

**Ans.**

- i. The earth is the third nearest planet to the sun.
- ii. In size, it is the fifth largest planet.
- iii. It is slightly flattened at the poles. That is why its shape is described as a Geoid.

Geoid means earth-like shape. The conditions favourable to support life on earth are:

- i. The earth is neither too hot nor too cold.
- ii. It has water and air which is very essential for our survival.
- iii. The air has life-supporting gases like oxygen.

**Q.5. What is a galaxy?**

**Ans.**

- i. heavenly bodies bounded by the force of gravitation.
- ii. The word 'Galaxy' has been taken from the Greek word 'Galaxias' which means milky, a reference to the Milky Way Galaxy.
- iii. One of the bright bands on the clear night sky is known as 'Milky Way Galaxy' or 'Akash Ganga'.
- iv. It is the home to the solar system and to one of the unique planets, earth.

**Q.6. How has solar system affected man?**

**Ans.** It has led to new inventions and discoveries with the realisation that man should preserve nature.