

Board – CBSE

Class – 8

Topic – Stars and the Solar System

CHOOSE THE MOST APPROPRIATE ANSWER:

- The distance of the star Alpha Centauri from the Earth
 - 4.3 light years
 - 2 million light years
 - 3.26 light year
 - 4.3 light minutes
- The nearest Planet to the sun is
 - Earth
 - Mercury
 - Jupiter
 - Venus
- The Indian name of Cassiopeia constellation is
 - Kruttika
 - Vyadha
 - Sharmishtha
 - Vrishchika
- Moon completes one revolution around the Earth in
 - 24 hours
 - 27.3 days
 - 30 days
 - 1 Year
- The first artificial satellite launched was
 - Insat 1-A
 - Sputnik 1
 - Insat 1-8
 - None of the above

FILL IN THE BLANKS:

- The branch of science that deals with the study of heavenly bodies is called _____.
- The heavenly bodies that do not twinkle are called _____.
- The star closest to Earth after the Sun is _____.
- The average distance of the Sun from Earth is _____.
- The most famous comet is _____ comet.

MATCH THE COLUMNS:

1. Column-I

- (1) Pole star
- (2) Meteors
- (3) Scorpio
- (4) Natural satellite
- (5) Mars

Column-II

- (a) Vrishchika
- (b) Red planet
- (c) Ursa Minor
- (d) Shooting stars
- (e) Moon

STATE WHETHER TRUE OR FALSE:

- 1. The Sun reflects the light of other nearby stars.
- 2. The Halley's comet can be seen from the Earth every 86 years.
- 3. A light-year is the unit of distance travelled by light in 10 years.
- 4. The first artificial satellite sent by USSR was Aryabhata.
- 5. Meteors that finally reach the earth surface are called meteorites.

ANSWER THE FOLLOWING QUESTIONS IN SHORT :

- 1. How far is the Sun from the Earth?
- 2. Name the planet nearest to the Earth.
- 3. What is a comet?
- 4. Differentiate between stars and planets.
- 5. Define a constellation.
- 6. How many natural satellites do Jupiter and Saturn have?
- 7. How many kilometres equal one light-year?

ANSWER THE FOLLOWING QUESTIONS IN DETAIL:

- 1. Write a short note on the Sun and the solar system. Also, mention the Sun's composition and temperature.

2. Define a constellation and write a short note on two constellations.
3. Give a brief description of all the planets.
4. What are stars? Give examples.
5. Differentiate between natural and artificial satellites. Write the importance of artificial satellites.
6. Why is life not possible on Venus?
7. Why do scientists expect life on Mars?