

# Stars and the Solar System

## ORAL QUESTIONS

**A. Answer these questions orally.**

1. Name the bright star that lies over the north pole of the earth.
2. Name a natural object which revolves around a planet.
3. One parsec is equal to how many light years?
4. Name the two moons of the planet Mars.

**B. Fill in the blanks.**

1. Mars has two moons, named as \_\_\_\_\_ and \_\_\_\_\_.
2. Jupiter has \_\_\_\_\_ moons revolving around it.
3. The first ever artificial satellite was launched by \_\_\_\_\_ on \_\_\_\_\_.
4. The last Halley's Comet visited in \_\_\_\_\_.

## PUZZLE/QUIZ

**C. Find atleast nine terms that are related to Stars and the Solar System.**

M	P	Q	W	P	T	P	A	L	A	A
E	A	P	I	L	Y	U	P	K	T	U
T	W	S	C	O	M	E	T	T	K	R
E	Q	I	E	U	R	Z	A	E	N	S
O	T	R	Y	E	I	H	Y	H	R	A
R	Y	I	O	Y	B	Q	Z	C	V	M
I	O	U	P	A	B	C	X	N	M	A
T	L	S	Y	P	L	U	T	O	A	J
E	M	R	Q	W	X	M	Z	I	R	O
I	A	S	T	E	R	O	I	D	S	R
U	R	S	A	M	I	N	O	R	N	H

## CLASS TEST

### D. MCQ– Tick (✓) the correct option.

1. After how many years does Halley's Comet repeats its visit into Earth's atmosphere?  
(a) 72 years  (b) 76 years   
(c) 74 years  (d) 75 years
2. The first Indian satellite was  
(a) Aryabhata  (b) Sputnik 1   
(c) Apollo-1  (d) Halley
3. Which constellation is also called 'the hunter'?  
(a) Orion  (b) Ursa Major   
(c) Ursa Minor  (d) None of these
4. Which of the following statements is incorrect?  
(a) Ursa Major is a seven member constellation.   
(b) The Pole Star indicates geographical south direction.   
(c) 1 parsec = 3.2 light years.   
(d) Asteroids revolve between the orbits of Mars and Jupiter.
5. Which is the hottest planet?  
(a) Mercury  (b) Venus   
(c) Jupiter  (d) Earth

### E. Very short answer questions.

1. How are planets classified?

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2. Name three dwarf planets.

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3. Name the smallest dwarf planet.

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4. Name the planet next to Mars.

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5. Which planet is called the twin sister of the Earth?

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6. Name the planet which rotates in a direction opposite to all other planets.

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7. Name a planet which has no moon.

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8. Name the fourth largest planet of our solar system.

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9. Give the full form of ISRO.

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**F. Short answers questions.**

1. What do you understand by celestial objects? Give 2 examples.

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2. What is a lunar month?

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3. What do you understand by a constellation? Name three constellations.

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4. How can you locate the Pole star?

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5. How does the ozone layer protect the life on the earth?

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6. How are artificial satellites useful?

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7. Complete the table given below:

S. No.	Planet	Number of Moons	Order of the distance from the sun	Any special feature
1.	Saturn			
2.	Earth			
3.	Venus			
4.	Uranus			

**G. Long answer questions.**

1. Describe the phases of moon.

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2. Describe the following:

(a) Meteors

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(b) Meteorites

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(c) Asteroids

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(d) Comets

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### **HOME ASSIGNMENT**

#### **H. Think and answer.**

1. Why do you think Pluto has fallen out of the category of planets?

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2. The tail of the comet always points away from the sun. What could be the reason.

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3. Why do planets not collide while revolving around the sun?

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### **WORKSHEET**

#### **I. Give reasons for the following.**

1. Stars appear to be very small.

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2. Stars appear to move from east to west in the night sky.

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3. Pole star is also called the north star.

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4. It is difficult to observe the surface of the Venus from the Earth.

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5. Venus is also known as the evening star.

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6. Ozone layer is also called the protection blanket of the earth.

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7. Meteors are also called shooting stars.

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