



# PHYSICS

## BOOKS - MBD

### STARS ABND THE SOLAR SYSTEM

#### Example

1. Which of the following is NOT a member of the solar system?

A. An asteroid

B. A satellite

C. A constellation

D. A comet

**Answer:**



**Watch Video Solution**

2. Which of the following is NOT a planet of the sun/  
sun/

A. Sirius

B. Mercury

C. Saturn

D. Earth

**Answer:**



**Watch Video Solution**

**3. Phases of the moon occur because**

A. we can see only that part of the moon which reflects light towards us.

B. our distance from the moon keeps changing

C. the shadow of the earth covers only a part of moon's surface.

D. the thickness of the moon's atmosphere is not constant.

**Answer:**



**Watch Video Solution**

4. The planet which is farthest from the sun is  
:



[Watch Video Solution](#)

5. Fill in the blank

the planet which appears reddish in colour  
is.....



[Watch Video Solution](#)

## 6. Fill in the blank

A group of stars that appear to form a pattern in the sky is known as a.....



[Watch Video Solution](#)

## 7. Fill in the blank

A celestial body that revolves around a planet in the known as .....



[Watch Video Solution](#)

## 8. Fill in the blank

Shooting stars are actually not .....



[Watch Video Solution](#)

## 9. Fill in the blank

Asteroids are found between the orbits of  
..... And .....



[Watch Video Solution](#)

**10. True or False**

Pole star is a member of our solar system.



**Watch Video Solution**

**11. True or False**

Mercury is the smallest planet in the solar system.



**Watch Video Solution**



**12.** The planet which is farthest from the sun is

:



**Watch Video Solution**

**13.** True or False

INSAT is an artificial satellite.



**Watch Video Solution**

**14. True or False**

There are nine planets in the solar system.



**Watch Video Solution**

**15. True or False**

Constellation Orion can be seen only with a telescope.



**Watch Video Solution**

**16.** In which part of the sky can you find Venus if it is visible as an evening star?



**Watch Video Solution**

**17.** Name the largest planet of the solar system.



**Watch Video Solution**

**18.** What is a constellation? Name any two constellations.



**Watch Video Solution**

**19.** Draw sketches to show the relative positions of prominent stars in

Ursa Major

Orion



**Watch Video Solution**

**20.** Name two objects other than which are members of the solar system.



**Watch Video Solution**

**21.** Explain how you can locate the Pole stars with the help of Ursa Major.



**Watch Video Solution**

**22.** Do all the stars in the sky move? Explain.





[Watch Video Solution](#)

**23.** Why is the distance between stars expressed in light years? What do you understand by the statement that a star is eight light years away from the earth?



[Watch Video Solution](#)

**24.** The radius of Jupiter is 11 times the radius of the Earth. Calculate the ratio of the volumes

of jupiter and the Earth. How many Earths can Jupiter accommodate?



[Watch Video Solution](#)

**25.** Booja made the following sketch of the solar system. Is the sketch correct? If not, correct it.



[Watch Video Solution](#)

**26.** The planet which is nearest to the sun?

A. Earth

B. Mercury

C. Saturn

D. Venus

**Answer:**



**Watch Video Solution**



27. Which planet is called red planet?

A. Mars

B. Mercury

C. Venus

D. Jupiter

**Answer:**



**Watch Video Solution**

28. Which is the brightest planet at night?

A. Mercury

B. Earth

C. Venus

D. Mars

**Answer:**



**Watch Video Solution**

29. The planet which is farthest from the sun is

:

A. Neptune

B. Jupiter

C. Mercury

D. Earth

**Answer:**



**Watch Video Solution**

**30.** Name the first Indian Artificial satellite.

A. INSAT

B. IRS

C. Arya Bhatta

D. Kalpana-I

**Answer:**



**Watch Video Solution**

**31.** Name the planet of the solar system where life exists.

A. Mercury

B. Earth

C. Mars

D. Saturn

**Answer:**



**Watch Video Solution**

32. Which of the following is NOT a member of the solar system?

- A. An asteroid
- B. A satellite
- C. A constellation
- D. A comet

**Answer:**



**Watch Video Solution**

**33.** Which of the following is NOT planet of the sun/

A. Sirius

B. Mercury

C. Saturn

D. Earth

**Answer:**



**Watch Video Solution**

**34.** Name the star closest to earth other than sun.



**Watch Video Solution**

**35.** How much time does light take to reach us from Alpha centuri.



**Watch Video Solution**

**36.** Which constellation looks like a big kite with a tail?





[Watch Video Solution](#)

**37.** Name the constellation which looks like a cluster of twinkling gems in the night sky.



[Watch Video Solution](#)

**38.** Define a light year.



[Watch Video Solution](#)

**39.** How far is the sun from the earth?



**Watch Video Solution**

**40.** Which planet is called red planet?



**Watch Video Solution**

**41.** Which planet rotates on its axis from East to West?



**Watch Video Solution**

**42.** Which force hold the planets in their orbits around the sun?



**Watch Video Solution**

**43.** What are Asteroids?



**Watch Video Solution**

**44.** What are meteorites?



[Watch Video Solution](#)

**45.** What are phases of moon?



[Watch Video Solution](#)

**46.** What is an artificial satellite?



[Watch Video Solution](#)

**47.** Write two uses of artificial satellites.



[Watch Video Solution](#)

**48.** Which planet has maximum of satellites?



[Watch Video Solution](#)

**49.** Why is pole star stationary?



[Watch Video Solution](#)

**50.** Which is natural satellite of the earth?



**Watch Video Solution**

**51.** Why can't Moon surface be used for communication?



**Watch Video Solution**

**52.** Name the largest planet of the solar system.



**Watch Video Solution**

**53.** Which is the nearest planet of the earth?



**Watch Video Solution**

**54.** In which part of the sky and at what time of the year are the following constellations seen?

Scorpio, Great Bear, Pole Star and the Orion.



**Watch Video Solution**

**55.** When was Halley's comet last seen?



**Watch Video Solution**

**56.** Name the nearest and the farthest planet from the sun.



**Watch Video Solution**

**57.** Draw sketches to show the relative positions of prominent stars in



Ursa Major

Orion



[Watch Video Solution](#)

**58.** What are planets? How many planets are there in the solar system? Name them.



[Watch Video Solution](#)

**59.** Give three points of difference between a star and planet.



**Watch Video Solution**

**60.** Why is life possible on the earth?



**Watch Video Solution**

**61.** Do all the stars of a constellation lie really close together?



**Watch Video Solution**

**62.** Name the planets which can be identified with naked eye.



**Watch Video Solution**

**63.** What is the solar system? Name the planets situated between the sun the earth.



**Watch Video Solution**

**64.** What is pole star and why is it important?



[Watch Video Solution](#)

**65.** Differentiate between a star and a shooting star:



[Watch Video Solution](#)

**66.** What are meteors or the shooting stars?



[Watch Video Solution](#)

**67.** Represent Solar system in a tabular form.



**Watch Video Solution**

**68.** What is light year? How is it expressed in meters.



**Watch Video Solution**

**69.** Why do the heavenly bodies seem to move from east to west?



[Watch Video Solution](#)

**70.** Define the following terms

Planet



[Watch Video Solution](#)

**71.** Define the following terms

Satellite



[Watch Video Solution](#)

**72.** Define the following terms

Period of rotation.



**Watch Video Solution**

**73.** Which is the brightest among all the planets and why?



**Watch Video Solution**

**74.** In which part of the sky can you find Venus if it is visible as an evening star?



**Watch Video Solution**

**75.** What are the conditions favouring life to flourish on earth?



**Watch Video Solution**

**76.** What is a solar system?





[Watch Video Solution](#)

77. What is meant by Uttarayan and Dakshinayan?



[Watch Video Solution](#)

78. What are terrestrial and Jovian Planets?



[Watch Video Solution](#)

**79.** Write a short note on 'Comets'.



**Watch Video Solution**

**80.** Write two uses of artificial satellites.



**Watch Video Solution**