



PHYSICS

BOOKS - MBD -HARYANA BOARD

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:



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

A. Sirius

B. Mercury

C. Saturn

D. Earth

Answer:



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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:



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4. Fill in the following blanks with suitable words :

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



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5. Fill in the following blanks with suitable words :

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



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6. Fill in the following blanks with suitable words :

The group of stars that appears to form a recognisable pattern in the sky is known as.....



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7. A celestial body that revolves around a planet is known as _____.



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8. Fill in the following blanks with suitable words :

Shooting star are actually not.....



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9. Fill in the following blanks with suitable words :

Asteriod are found between the orbits of
.....and.....



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10. Pole star is a member of our solar system.



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11. State whether the following statements are true or false :

Mercury is the smallest planet of the solar system.



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12. State whether the following statements are true or false :

Uranus is the farthest planet in the Solar System.





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13. INSAT is an artificial satellite.



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14. There are nine planets in the solar system.



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15. State whether the following statements are true or false :

Constellation Orion can be seen only with a telescope.



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16. Match A and B Columns

<i>(i)</i> Inner planets	<i>(a)</i> Saturn
<i>(ii)</i> Outer planets	<i>(b)</i> Pole star
<i>(iii)</i> Constellation	<i>(c)</i> Great Bear
<i>(iv)</i> Satellite of the earth	<i>(d)</i> Moon
	<i>(e)</i> Earth
	<i>(f)</i> Orion
	<i>(g)</i> Mars



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



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18. Name the biggest planet of the solar system.



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19. What is a constellation? Name any two constellations.



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20. Draw sketches to show the relative position of prominent stars in

(a) Ursa Major and

(b) Orion



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21. Name two objects other than planets which are members of the solar system.



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22. How can you locate the pole star with the help of Ursa Major?



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23. Do all the stars in the sky move ? Explain.





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24. 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?



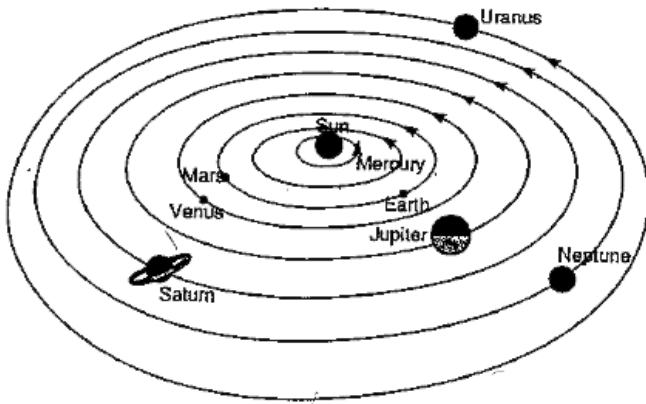
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25. The radius of Jupiter is 11 times the radius of the Earth. Calculate the ratio of the volumes

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

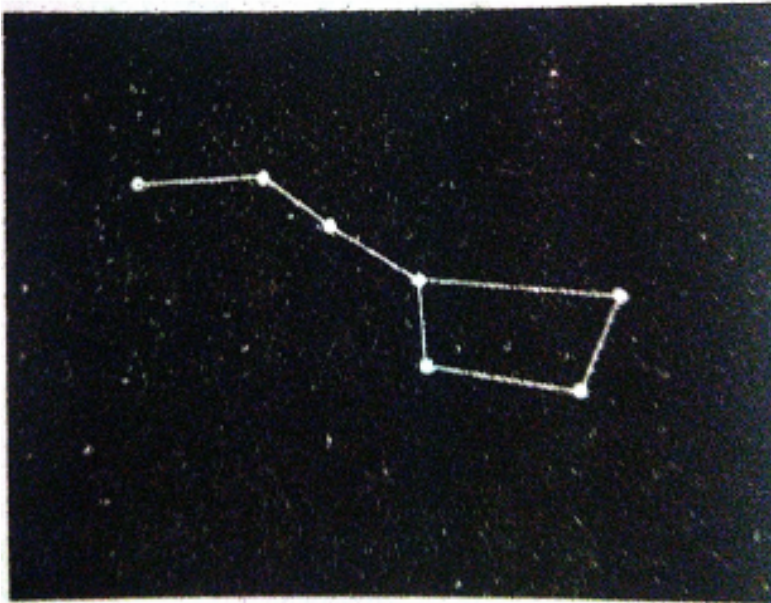
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26. Is the following sketch of the Solar system correct? If not, correct it.



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27. Parvinder saw a constellation in the sky in a clear dark night. Name this constellation.



A. Saptarishi

B. Orion

C. Cassiopia

D. None of the above

Answer:



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28. Which planet is the nearest to the Sun?

A. Earth

B. Mercury

C. Saturn

D. Venus

Answer:



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29. Which planet is called red planet?

A. Mars

B. Mercury

C. Venus

D. Jupiter

Answer:



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30. Which is the brightest planet at night?

A. Mercury

B. Earth

C. Venus

D. Mars

Answer:



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31. Fill in the following blanks with suitable words :

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

A. Neptune

B. Jupiter

C. Mercury

D. Earth

Answer:



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32. Name the first artificial satellite launched by India.

A. INSAT

B. IRS

C. Arya Bhatta

D. Kalpana-I

Answer:



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33. Name one planet of the Solar system having life on it.

A. Mercury

B. Earth

C. Mars

D. Saturn

Answer:



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34. 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:



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35. Which of the following is not planet of the solar system?

A. Sirius

B. Mercury

C. Saturn

D. Earth

Answer:



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36. Name the star nearest to the Earth.



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37. How much time does light take to reach us from the next nearest star 'Proxima Centauri' ?



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38. Which constellation looks like a big kite with a tail?



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



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40. Define light year.



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41. How far is the sun from the earth?



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42. Which planet is known as the red planet?



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



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44. For motion of planets in elliptical orbits around the sun the central force is



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45. What are asteroids?



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46. What are meteorites ?



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47. What is meant by the phases of the Moon ?



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48. What is an artificial satellite ?



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49. Write two uses of artificial satellites.



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50. Which planet has maximum of satellites?



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51. Why does Pole Star appear to be stationary in the sky ?



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52. Name the natural satellite of the Earth.



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53. Why can moon be not used as a communication satellite?



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54. Name the biggest planet of the solar system.



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55. Which planet is the nearest to the Sun?



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56. 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.



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57. When was Halley's comet last seen?



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58. Name the nearest and the farthest planet from the sun.



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59. How can you identify Ursa Major?



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60. How many planets are there in the solar system? Name them.



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61. Differentiate between

Stars and planets



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62. Why is life possible of the earth?



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



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64. Name the planets which can be identified with naked eye.



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65. Name the planets which lie between the sun and the Earth.



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66. What is pole star and why is it important?



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67. What is the difference between a star and a shooting star ?



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68. What is a meteor ?



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69. Represent Solar system in a tabular form.



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70. What is light year? How is it expressed in meters.



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



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72. Define the following terms

Planet



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73. Define the following terms

Satellite



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74. Define the following terms

Period of rotation.



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75. Which is the brightest among all the planets and why?



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76. What are three conditions for the origin of life ?



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77. What is Solar System ?



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78. What is meant by Uttarayan and Dakshinayan?



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79. What are terrestrial and Jovian Planets?



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80. Write a short note on 'Comets'.



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81. State three uses of artificial satellites.



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