



PHYSICS

BOOKS - PSEB

STARS AND THE SOLAR SYSTEM

Exercise

1. Which of the following is NOT a member of 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 the moon's surface.

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

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





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4. Fill in the blanks. The planet which is farthest from the sun is



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5. Fill in the blanks. The planet which appears reddish in colour is



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6. Fill in the blanks. A group of stars that apperas to form a pattern in the sky is known as a



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7. Fill in the blanks. A celestial body that revolves around a planet is known as



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8. Fill in the blanks. Shooting stars are actually not



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9. Fill in the blanks. Asteroids are found between the orbits ofand



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10. Mark the following statements as true (T) or false . Pole star is a member of the solar system. ()



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11. Mark the following statements as true (T) or false . Mercury is the smallest planet of the solar system. ()



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12. Mark the following statements as true (T) or false . Uranus is the farthest planet in the solar system. ()



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13. Mark the following statements as true (T) or false . There are nine planets in the solar system. ()



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14. Mark the following statements as true (T) or false . INSAT is an artificial satellite. ()



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15. Mark the following statements as true (T) or false . Constellation Orion can be seen only with a tele scope. ()



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16. Match items in column A with one or more items in column B.

A

- (i) Inner planets
- (ii) Outer planets
- iii) Constellation
- iv) Satellite of the Earth

B

- (a) Saturn
- (b) Pole star
- (c) Great Bear
- (d) Moon
- (e) Earth
- (f) Orion
- (g) 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 largest planet of the solar system.



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19. What is constellation ? Name any two constellations.



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

Ursa Major

Orion



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21. Draw sketches to show the relative positions of prominent stars in Orion



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



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23. Explain how you can locate the Pole Star with the help of Ursa Major.



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





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25. 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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26. 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 be Jupiter accommodate ?

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27. Boojho made the following sketch of the solar system ?Is the sketch correct ? Is the sketch correct ?If not , correct it.

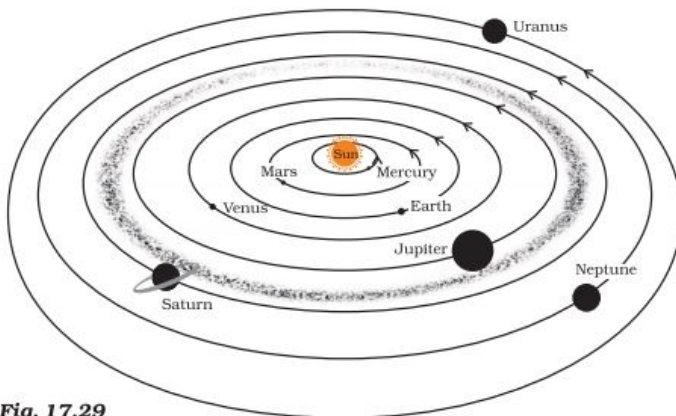


Fig. 17.29



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