



PHYSICS

BOOKS - PSEB

Light

Exercise

1. Fill in the blanks: An image that cannot be obtained on a screen is called _____.



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2. Fill in the blanks: Image formed by a convex _____ is always virtual and smaller in size.



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3. Fill in the blanks: An image formed by a _____ mirror is always of the same size as that of the object



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4. Fill in the blanks: An image which can be obtained on a screen is called a _____ Image.



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5. Fill in the blanks: An image formed by a concave _____ cannot be obtained on a screen.



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6. Mark 'T' if the statement is true and 'F' if it is false: We can obtain an enlarged and erect image by a convex mirror. (T/F)



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7. Mark 'T' if the statement is true and 'F' if it is false: A concave lens always form a virtual image.(T/F)



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8. Mark 'T' if the statement is true and 'F' if it is false: We can obtain a real, enlarged and inverted image by a concave mirror.(T/F)



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9. Mark 'T' if the statement is true and 'F' if it is false: A real image cannot be obtained on a screen.(T/F)



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10. Mark 'T' if the statement is true and 'F' if it is false: A concave mirror always form real image.(T/F)



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11. State the characteristics of the image formed by a plane mirror .



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12. Find out the letters of English alphabet or any other language known to you in which the image formed in a plane mirror appears exactly like the letter itself. Discuss your findings.



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13. What is a virtual image? Give one situation where a virtual image is formed.



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14. State two differences between a convex and a concave lens.



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15. Give one use of a concave and a convex mirror.



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16. Which type of mirror can form a real image?



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17. Which type of lens forms always a virtual image?



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18. Choose the correct option: A virtual image larger than the object can be produced by a-

- A. concave lens
- B. concave mirror
- C. convex mirror
- D. plane mirror

Answer:



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19. Choose the correct option: David is observing his image in a plane mirror. The distance between the mirror and his image is 4m. If he moves 1m towards the mirror, then the distance between David and his image will be:

A. 3m

B. 5m

C. 6m

D. 8m

Answer:



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20. Choose the correct option: The rear view mirror of a car is a plane mirror. A driver is reversing his car at a speed of 2 m/s . The driver sees in his rear view mirror the image of a truck parked behind his car. The speed at which the image of the truck appears to approach the driver will be :

A. 1m/s

B. 2m/s

C. 4m/s

D. 8m/s

Answer: 4m/s



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