



PHYSICS

BOOKS - CHETANA PUBLICATION

MAS03

Exercise

1. The image made by a plane mirror is aimage.

A. real

B. virtual

C. inverted

D. diminished.

Answer:



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2. Molecular mass of methane is

A. 19

B. 16

C. 17

D. 18

Answer:



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3. Sound waves with frequency greater than 20 kHz are called

A. infrasound

B. ultrasound

C. sonic

D. damped sound

Answer:



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4. The% aqueous solution of salt is called brine.

A. 25

B. 60

C. 30

D. 50

Answer:



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5. If the reflected rays do not actually meet, such an image is called as.....image.

A. real

B. virtual

C. magnified

D. inverted

Answer:



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6. Find the odd man out: Submarines, icebergs, internal organ, sunken ships.



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7. Complete the analogy: Propene : double bond :: Propyne :



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8. State whether the following statements are true or false. Correct the false statements:

A convex mirror is used in flood lights.



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9. What is dye?



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10. Give reasons, (any 2)

Bats can navigate in the dark.



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11. Give reasons, (any 2)

Methane is used as a domestic fuel.



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12. Give scientific reasons:

Bleaching powder has the odour of chlorine.



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13. Give the uses of coal?



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14. If you hear the thunder 20 seconds after you see the flash of lightning, how far from you has the lightning occurred? (Speed of sound in air = $340 \frac{m}{s}$)



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15. An object 10 cm in height is placed at a distance of 36 cm from a concave mirror. If the image is formed at a distance of 18 cm in front of the mirror, find the height of image.





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16. The speed of sound in air at $0^{\circ}C$ is $332m/s$. If it increases at the rate of $0.6m/s$ per degree, what will be the temperature when the velocity has increased to $344m/s$?



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17. Give structural formula and electron dot model of methane.



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18. What is an echo? What factors are important to get a distinct echo?



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19. Write a short note on biogas plant. (3) Give the properties and uses of bleaching powder?



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20. Explain the sign conventions for reflection by spherical mirrors



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21. Hydrogen gas is filled in two identical bottles, A and B, at the same temperature. The mass of hydrogen in the two bottles is 12 gm and 48 gm respectively. In which bottle will sound travel faster? How many times as fast as the other?





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22. Explain the following chemical reactions with the help of a balanced equation.

Calcium carbonate reacts with dilute Hydrochloric acid.



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23. Explain the following chemical reactions with the help of a balanced equation.

Methane gas and chlorine gas react with each other.



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24. Write the properties and uses of Teflon.



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25. Draw ray diagram for object at infinity for a concave mirror.



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26. Write in short note on SONAR?



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27. With the help of a neat labelled diagram, explain the laboratory preparation of carbon-dioxide.



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32. If the reflected rays do not actually meet, such an image is called as.....image.

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Submarines, icebergs, internal organ, sunken ships.



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35. State True or False. Correct the false statement:

A convex mirror is used in flood lights.



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36. What is dye?



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37. Match the columns:

Column 'A'	Column 'B'
(1) Diamond	(a) Hexagonal layered
(2) Graphite	(b) Tetra hedral structure
	(c) Geodesic dome



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38. Bats can navigate in dark.



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39. Give reasons, (any 2)

Methane is used as a domestic fuel.



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