



PHYSICS

BOOKS - CHETANA PHYSICS (MARATHI ENGLISH)

Unit Test 3



1. The branch of Physics which deals with the production of transmission and reception of

sound is called

A. reverberation

B. Acoustics

C. Pitch

D. Doppler effect

Answer:



2.	The	equa	tion
n_2 ·	$- n_1$ _	n_2	n_1
\overline{R}		\overline{v}	\overline{u}

A. Prism formula

B. Dispersive power

C. Dispersion at a spherical surface

shown

below

is

D. Lens makers equation

Answer:

3. What is the magnitude of charge on an electron?

A. $1.6 imes 10^{-9}C$

 $\texttt{B.}\,9.1\times10^{-31}C$

C. $1.732 imes10^{-11}C$

D. $6.67 imes 10^{-11}C$

Answer:

4. The product of the magnitude of the charge and the distance between the two charges on a dipole, is called

A. Electric dipole

B. Electric pole strength

C. Electric dipole moment

D. Electric intensity

A. Electric dipole

B. Electric pole strength

C. Electric dipole moment

D.	E	lectric	intensity
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Answer:



5. State Gauss Law

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6. Define Dispersive Power.

7. Calculate the velocity of sound if the frequency of the wave is 4 Hz and the wavelength of the wave is 80 meters.

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8. Define Total internal reflection



11. A man shoutsloudly close to a high wall, he

hears an echo. If the man is 40 mfrom the wall,

how long after he shouts, will the echo is

heard, (speed of sound is 330m/s)



12. State law of characteristics of electric lines

of force.

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13. Draw a well labelled diagram for magnifying power of a simple microscope.



15. For a dense flint glass prism of refracting angle 10^0 , Findthe anangular deviation for extreme colours and the dispersive ppower for



 $n_{vio\,\leq\,t}=$ 1.792)

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16. Derive an expression for couple acting on

an electric dipole kept in a uniform electric field.



17. Explain the effect of change in temperature

on the speed of sound in air.

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18. Derive an expression for electric field

intensity of a point on the equatorial line.

19. Derive an expression for magnifying power

of a compound microscope.

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20. Derive an expression for apparent frequency when the source is moving and listener is stationery