

India's Number 1 Education App

PHYSICS

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER - 9 (PAPER - II)



1. Explain Brewster's law.

2. A small angled prism of 4° deviates a ray through 2.48° . Find the refractive index of the prism.



3. How do you 'convert a moving coil galvanometer into an ammeter ?





5. Two slits are made 1 'mm apart and the screen is placed 1 m away. What is the fringe separation when blue-green light of wavelength 500 nm is used ?

6. What are Eddy currents ?



8. What are the applications of microwaves ?



10. What is sky wave propagation ?





1. With a neat labelled diagram explain the

formation of image in a simple microscope.

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2. State Gauss's law in electrostatistics and

explain its importance.

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3. Explain series combination of capacitors. Derive the formula for equivalent capacitance



5. Compare the properties of para, dia and

ferromagnetic substances.



6. What is the de Broglie wavelength of a ball of mass 0.12 kg moving with a speed of $20ms^{-1}$? What can we infer from this result?

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7. Explain the different types of spectral series

of Hydrogen atom.





when the observer is in motion with respect to

a source at rest.



2. State the working principle of potentiometer. Explain with the help of circuit diagram how the emf of two-primary cells are compared by using the potentiometer.

A potentiometer wire is Sm long and a potential difference of 6V is maintained between its ends. Find the emf of a cell which balances against a'rength of 180 cm of the potentiometer **3.** Explain the principle and working of a nuclear reactor with the help of a labelled diagram.