



PHYSICS

BOOKS - JEEVITH PUBLICATIONS PHYSICS (KANNADA ENGLISH)

SUPER MODEL QUESTION PAPER -5



1. What is the potential difference between

any two points inside a charged spherical



4. What is hysteresis ?



5. Mention the expression for self inductance of a solenoid . Give the meaning of the symbols used.



6. Define a wave front .



9. Give the circuit symbol of AND-gate.





1. Write an expression for potential at a point

on the diople axis of an electric dipole .



3. What is a transformer ? Write an expression

for turns ratio .



6. On what factor does the stopping potential

depend for a given photoemitter?

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7. Give any two postulates of Bohr's theory of

atomic model.



2. Obtain an expression for the force between two straight parallel conductor carrying current. Hence define ampere.



3. State and explain Gauss's law in magnetism.



4. Give the expression for velocity of an electron in the n^{th} orbit. Explain the meanings of the symbols.



5. Explain the working of a zener diode as a

voltage regulator.



1. Obtain an expression for the electric field intenstiy at a point on the equatorial line of an electric dipole.

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2. Deduce the condition for balance of a

wheatstone's bridge using Kirchoffs rules .



supply, and is connected to another

uncharged 2 µF capacitor. How much electrostatic energy of the first capacitor is lost in the form of heat and electromagnetic radiation?



6. The magnetic fields at two points on the axis of a circular coil at distance of 0.05 m and 0.2 m from the centre are in the ratio 8:1. The radius of the coil is

7. In a Young's double slit experiment, the angular width of a fringe formed on distant screen is 0.1° . The wave length of light used is $6000\overset{\circ}{A}$. What is the spacing between the slits ?

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8. The half life of ${}_{38}Sr^{90}$ isotope is 28 years. What is the rate of disintegration of 15 mg of this isotope? (Given Avogadro No $=6.023 imes10^{23}$)

