(i) When two plane polarised light waves of unequal amplitude with phase

(j) \overrightarrow{E} and \overrightarrow{H} represent electric and magnetic field vectors of an electromagnetic

(ii) Circularly polarised wave (iii) Elliptically polarised wave (iv) None of these

difference $\frac{\pi}{2}$ combine, they produce: (i) Plane polarised wave

wave, then the direction of propagation of the wave is that of:

(i) \overrightarrow{E} (ii) \overrightarrow{H} (iii) $\overrightarrow{E} \times \overrightarrow{H}$ (iv) $\overrightarrow{H} \times \overrightarrow{E}$

GROUP-A

2. Define electrical images. Obtain an expression for the field produced by a point

charge in the presence of a conductor at zero potential with an infinite plane face.

3. What is photoelectric effect? What are the laws of photoelectric effect? Establish

Einstein's equation of photoelectric emission.

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(iii) Aluminium 🐪

(iv) None of these

(iv) Encrev

(ii) Only inside the dielectric

(iv) Everywhere

(iii) Current

(a) Which one of the following is the best suited for making a strong magnet-

1. Select the correct option from the following:

(ii) Soft iron

(b) The relation $\overrightarrow{D} = \epsilon_0 \overrightarrow{E} + \overrightarrow{P}$ holds good:

(ii) Potential difference

(iii) Only outside the dielectric

(i) Only in vacuum

(i) Charge

(e) Electron volt is the unit of:

(d)Ohm's law in vector form is:

Describe with a neat diagram the construction, theory and working of a moving coil Described galvanometer. State the conditions under which this galvanomenter is (a) ballistic and (b) dead beat.

(a) partial containing emf is applied to an LCR circuit in series. Find the expression for An antaneous current in the circuit. Under what conditions will electrical resonance

occur?

GROUP-B

State Fermat's principle of least time and apply it to prove laws of reflection and refraction of light at a plane surface.

7. Explain the theory of Newton's ring. Describe how the wave length of

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monochromatic light is measured with the help of these rings.

g. Give the theory of plane transmission grating. How can you measure the wave length of sodium light with this method?

9. Establish Maxwell's equation of plane electromagnetic wave in free space.

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