

Section-A

Ques 1:- Maxwell equation in vacuum & non conducting medium?

→ ~~Maxwell equation in vacuum~~

Maxwell first equation :-

$$q (= \int_V \rho dv)$$

Second equation: - ~~$q = \int_V \rho dv$~~

net outward flux of magnetic induction through a surface enclosing a volume is equal to 0.

→ non-existence

③ Maxwell 3rd eqⁿ

$$\text{emf} = \int_C \vec{E} \cdot d\vec{l}$$

$$\text{flux} = \int_S \vec{B} \cdot d\vec{s}$$

Date _____

Page _____



④ Maxwell fourth eqⁿ :-

$$\int_C \vec{H} \cdot d\vec{l} = \text{Sum of conduction current \& displacement}$$