

Course Code : 2BSC5

Course: PHYSICS-II

Credit: 4

Last Submission Date : October 31, (for January session)

April 30 (for July Session)

Max.Marks:-30

Min.Marks:-10

Note:-attempt all questions.

- Que.1 State and prove Gauss' divergence theorem.
XkkI ds Mkbobtll i es dks fyf[k, , oa fl /n dhft, A
- Que.2 What is Jacobean application in integration.
Lkekdyu ea tdfc; u vuq z; ksx D; k g\
- Que.3 Define the displacement vector $D \rightarrow$ and deduce the relation between $D \rightarrow$ and $E \rightarrow$.
विस्थापन सदिश को परिभाषित कीजिए तथा $D \rightarrow$, oa $E \rightarrow$ ea l c/k fuxfer dhft, A
- Que.4 What do you understand by a dielectric substance and dielectric constant.
i j k o s k r i n k F k l r F k k i j k o s k r fu; r k a d l s v k i D; k l e > r s g \
- Que.5 Why a series LCR circuit called the acceptor circuit.
J s k h c ? n L C R i f j i F k d k s x k g h i f j i F k D; k a d g r s g \
- Que.6 State and explain Kirchoff's laws of electrical network.
fo?k r u s v o d l d s f d j p k Q d s fu; e fyf[k, r F k k b l g a l e > k b; \
- Que.7 Write and prove Bio-savart law and give its. Some applications.
C k k; k s & l o v l d k fu; e fyf[k, r F k k b l s fl ? n dhft, v k j b l d s d l n v u q z; k s x c r k b; \
- Que.8 Define magnetic permeability and magnetic dipole moment.
चुम्बकनशीलता तथा चुम्बकीय द्विध्रुव आघूर्ण को परिभाषित कीजिए\
- Que.9 Prove that $\vec{\nabla} \cdot \vec{D} = \rho$ and $\vec{\nabla} \times \vec{B} = 0$
fl ? n dhft, f d $\vec{\nabla} \cdot \vec{D} = \rho$ and $\vec{\nabla} \times \vec{B} = 0$
- Que.10 Write short notes on:-
L k f { k l r f v l i . k h fyf[k, :-
(1) Total internal reflection
O. k l v k r f j d i j k o r k l u
(2) Poynting's vector
i k p f V x o d V j