



SMART TEST SERIES

www.notespk.com : info@notespk.com

Name:		Subject:	Physics-12
Roll # :		Unit(s):	14,
Class:	Inter Part-II	Test:	Type 2 - SQs Test - Marks=40
Date:		Time:	

SHORT QUESTIONS TEST

1- Write short answers to any 7 questions: (7x2=14)

- (i) Distinguish between magnetic flux and magnetic flux density. Write their SI units.
- (ii) Describe the change in magnetic field inside a solenoid carrying a steady current I if length of solenoid is doubled but number of turns remains the same.
- (iii) What is cathode ray oscilloscope and galvanometer?
- (iv) Draw saw tooth voltage wave form and describe it.
- (v) What is the function of 'X' and 'Y' plates in C.R.O?
- (vi) What should be the orientation of current carrying loop in a magnetic field so that torque acting upon it is a) Maximum b) Minimum.
- (vii) What is dead beat galvanometer?
- (viii) How can you convert a galvanometer in to voltmeter?
- (ix) What is an ohmmeter?
- (x) Write a short note on "Digital Multimeter" (DMM).

2- Write short answers to any 7 questions: (7x2=14)

- (i) If a charged particle moves in a straight line through some region of space can you say that magnetic field in the region is zero?
- (ii) If a charged particle moves in a straight line through some region of space can you say that magnetic field in the region is zero or non-zero?
- (iii) What is right hand rule to find the direction of lines of force?
- (iv) Why does the picture on a T.V screen become distorted when a magnet is brought near the screen?
- (v) Suppose that a charge "q" is moving in a uniform magnetic field with a velocity V . Why is there no work done by the magnetic force that acts on the charge "q".
- (vi) How can you use a magnetic field to separate isotopes of chemical element?
- (vii) What is the function of grid in a cathode Ray oscilloscope?
- (viii) Define current sensitivity of a galvanometer.
- (ix) A loop of wire is suspended between poles of a magnet with its plane parallel to the pole faces. What happens if a direct current is put through the coil? What happens if an alternating current is used instead?
- (x) What is digital multimeter? Give its two advantages over AVO meter.

3- Write short answers to any 6 questions: (6x2=12)

- (i) Why is B' non-zero outside a solenoid?
- (ii) Can a charged particle move through a magnetic field without experiencing any force. If so, then how?
- (iii) A solenoid 15cm long has 300 turns of wire. A current of A flows through it. What is the magnitude of magnetic field inside the solenoid?
- (iv) Write two uses of CRO.
- (v) What are the functions of Anodes in CRO?
- (vi) What is a CRO and why is it so called?
- (vii) What is C.R.O? Also give its two uses.
- (viii) What happen to the current of a circuit if a load resistance of the circuit is much less than the voltmeter is supposed to connect in series to the circuit?
- (ix) Define AVO meter and Ohm meter.