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Home Assignment :- Moving charges and magnetism

(1) (i) (a) Some kind of Charged Particles

(ii) (c) Only magnetic force

(iii) (d) none of the Above.

(iv) (a) $V_{max} = \frac{qBR}{m}$

(v) The particles kinetic energy

(vi) (d) none of these

(2) (i) (a) Italian electricity researcher Luigi Galvani.

(ii) (a) to detect and measure small electric current.

(iii) (a) $S_i = \theta/i = \frac{NBA}{C}$

(iv) (b) may not change the voltage sensitivity.

(v) (a) $i^2 \left(\frac{C}{BNA}\right)\theta$

(vi) Directly proportional to $\sin\theta$.

(ii) Both A and R are true and the Reason is the correct explanation of the assertion.

(iii) Both A and R are true and the Reason is the correct explanation of the Assertion.

(iii) Both Assertion and Reason are true

(iv) Both A and R are false

A → Both Force and torque act on a magnetic dipole in magnetic field

R → In uniform magnetic field net force is zero.

(v) Both A and R are true but R is not correct explanation of A.

(vi) Both A and R are true but R is not is correct explanation of A

(4) (1) (1) - An ammeter is connected in series in a circuit and the current through is negligible

(2) (c) - Infinity

(3) (a) - None

(4) (a) $i^2\left(\frac{L}{BNA}\right)\theta$

(5) (a) $L_i = \frac{\Phi}{i} = \frac{NBA}{i}$