17/07/21

HOME ASSIGNMENT

1(i) a) some kind of charged particles

(ii) a) only electrostatic force.

(iii) .

(iv) b) the particle velocity changes

(v) a) $v_{max} = \frac{q_1 B R}{m}$

(vi) a) any speed can be obtaind by a charged particle by choosing ~~[illegible]~~ suitabledee radius.

2(i) a) Italian electricity researcher ~~[illegible]~~ Luigi Galvani

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

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

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

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

(vi) a) directly proportional to $\sin\theta$.

3(i)

(ii) A) both Assertion and Reason are true and the Reason is the correct explanation of the Assertion

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

(iv) D) Both Assertion and Reason are false.

(v) B) Both Assertion and Reason are true but Reason is not the correct explanation of Assertion.

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

4 (a) an ammeter is connected in series in a circuit. and the current through it is negligible.

(2) c) Infinity

(3) a) more

(4) a) $i = \left(\frac{C}{BNA}\right)\theta$

5 a) $Si = \frac{NBA}{C}$