

16/07/21

Assignment

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①

i) (b) any kind of charged particles

ii) (b) only magnetic force

iii) (b) a conductor shields any charge within it

iv) (b) The particle's velocity changes

v) (c) $V_{max} = \frac{qB}{Bm}$

vi) (c) Electrons are best particles to be accelerated.

②

i) (b) Italian electricity researcher Luigi Galvani who discovered galvanometer.

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

iii) (b) $S_i = \frac{\theta}{i} = \frac{NB}{GA}$

iv) (c) Never changes the voltage sensitivity.

v) (d) None of these.

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

③

i)

ii) (a) Both A & R are true & R is the correct explanation of A.

iii) (a) both assertion & Reason are true and the Reason is the correct explanation of the Assertion.

iv) (d) both assertion and reason are false.

v) (b) Both A & R are true & the R is not the correct explanation of A.

vi) (a) both A & R are true and the R is the correct explanation of A.

(3)

1) (d) an ammeter is connected in series in a circuit & the current through it is negligible.

2) (c) infinity

3) (a) None

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

5) (c) $S_i = \theta i = \frac{C}{NBA}$

no w