

# Home assignment

1  
(i) some kind of charged particle

(ii) Lorentz force

(iii) A conductor sheds any charge which is on it (b)

iv Inside a dielectric particle velocity changes

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

2 Galvanometer is named after:

(i) Italian electricity researcher Luigi Galvani

(ii) Galvanometer is used to detect measure of small current -

(iii) Current sensitivity of galvanometer

$$S_i = \frac{\theta}{i} \quad \left( \frac{NBA}{c} \right)$$



Increasing Current-Sensitivity  
magnet change Voltage  
Sensitivity

2.5 (c)

ii (a)

iii (a)

iv (d)

v (b)

(vi) a

4 (a) d

(2) (1) infinity

3 (a) MON

4 (a)  $r_i = \left( \frac{r_c}{\beta NA} \right) u$

5 (c)  $r_i^0 = \frac{\quad}{NA}$

- X -