1.

i) Cyclotron is used to accelerate

Ans: Some kind of charged particles. (a)

ii) The force that accelerates the particles in the cyclotron is

Ans: Lorentz force (c)

iii) Choose the correct option

Ans: a conductor sheilds any charge within it. (b)

iv) Inside a dee

Ans: The particle's velocity changes (b)

v) What is the formula for maximum speed attained by a charged particle in a cyclotron

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

vi) In a cyclotron

Ans: ~~ang speed can be~~

2.

i) Galvanometer was ~~#~~ named after

Ans: Italian electricity researcher Luigi Galvani. (a)

ii) Galvanometer is used

Ans: to detect and measure small electric current (a)

iii) Choose the correct option for ~~current~~ current sensitivity of galvanometer

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

iv) Increasing the current sensitivity
Ans may not change the voltage sensitivity. (b)

v) Choose the correct option for design formula of galvanometer
Ans ~~none of these~~ (d) $i = \left(\frac{C}{BNA}\right)\theta$

vi) In the galvanometer the radial magnetic torque
Ans

3.
i)

ii) (a)

iii) (a)

iv) (d)

v) (b)

vi) (a)

4.
1) (d)

2) (c) infinity

3) (a) More

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

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