1.) Cyclotron is used to accelerate.
ans Some kind of charged particles (a).

2.) The force that accelerates the particles in the cyclotron is
ans Lorentz force (c).

3.) Choose the correct option:
ans a conductor shields any charge within it (b).

4.) Inside a dee
ans The particles velocity changes (b).

5.) What is the formula for maximum speed attained by a charged particle in a cyclotron
ans $V_{max} = \frac{qBR}{m}$ (a).

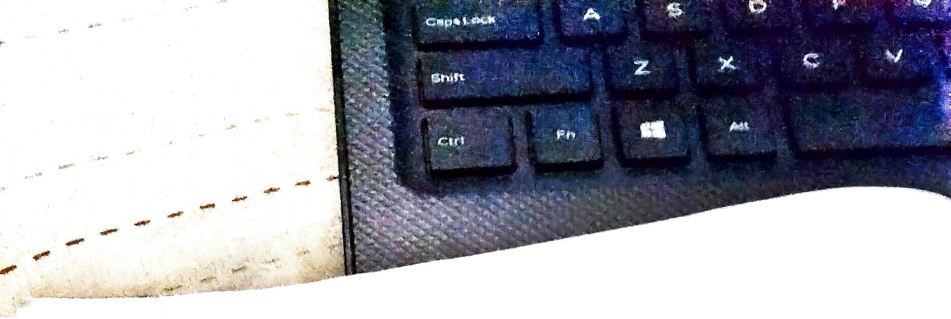
6.) Galvanometer was named after:
ans Italian electricity researcher Luigi Galvani (a)

7.) Galvanometer is used:
ans To detect and measure small electric current.

8.) Choose the correct option from current sensitivity of galvanometer:
ans $S_i = \frac{\theta}{I} = \frac{NBA}{C}$ (a).

9.) Increasing the current sensitivity
ans may not change the voltage sensitivity (b)

10.) Choose the correct option from design formula of galvanometer a.) $\left(\frac{C}{BNA}\right)$ a



vi) a)

3 i)

ii) (a)

iii) (a)

iv) (d)

v) (b)

vi) (a)

4 i) (d)

2) (c) Infinity.

3) a) More

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

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