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31. Coil of a galvanometer is suspended in a radial magnetic field so that the deflecting torque on the coil is always

A. BINA cosa

B. BINA sina

C. BINA tana

D. BINA

Answer: Option D

32. A galvanometer basically is an instrument used to

A. detect current in a circuit

<u>B.</u> measure current flowing through a circuit

C. measure voltage across a circuit

<u>D.</u> measure potential difference between two points in a circuit

Answer: Option A

33. The effective way to increase the sensitivity of a moving coil galvanometer is to

A. use a very long and fine suspension

B. use a coil of very large area

<u>c.</u> use a coil with very large number of turns

D. use a very strong magnetic field

Answer: Option D

34. A wheat stone bridge is said to be balanced when

maximum current flows through the galvanometer branch

<u>B.</u> minimum current flows through the galvanometer branch

potential difference across galvanometer branch is maximum

potential difference across galvanometer branch is zero

Answer: Option D

35. When an electron moving with a uniform speed in a vacuum enters a magnetic field in a direction perpendicular to the field the subsequent path of the electron is

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- A. a straight line parallel to the field B.
- a parabola in a plane perpendicular to the field
- <u>c.</u> a circle in a plane perpendicular to the field
- <u>D.</u> a straight line along its initial direction

Answer: Option C

- 36. A particle of mass m charge q and speed V enters a uniform magnetic radius r. The radius r of the circle is
 - A. independent mass m
- **B.** directly proportional to m
- **C.** directly proportional to q
- **D.** directly proportional to B

Answer: Option B

- 37. Galvanometer is a very sensitive device with
 - A. very low damping

B. very high damping

no damping at all

nadial field disintegration

Answer: Option A

- 38. Which one of the following methods would be able to increase the sensitivity of a moving coil galvanometer?
 - **A.** connect a shunt across the coil
- B. use a coil of smaller cross sectional area
- use a coil having less number of
- use spiral springs whose force constant is small

Answer: Option D

- 39. Heating a magnet will
 - A. weaken it

B. strengthen it

C. reverse its polarity

D. demagnetize it completely

Answer: Option A

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- 40. If a current carrying solenoid is suspended freely it will
 - **A.** be rotating

- **B.** come to rest in N-S direction
- vibrating like galvanometer needle
- **D.** comes to rest after rotation

Answer: Option B

