

- A. a straight line parallel to the field B. a parabola in a plane perpendicular to the field
C. a circle in a plane perpendicular to the field D. a straight line along its initial direction

Answer: Option c

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36. A particle of mass m charge q and speed V enters a uniform magnetic field. 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

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37. Galvanometer is a very sensitive device with
- A. very low damping B. very high damping
C. no damping at all D. radial field disintegration

Answer: Option A

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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
C. use a coil having less number of turns D. use spiral springs whose force constant is small

Answer: Option D

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39. Heating a magnet will
- A. weaken it B. strengthen it
C. reverse its polarity D. demagnetize it completely

Answer: Option A

40. If a current carrying solenoid is suspended freely it will

- [A.](#) be rotating
- [B.](#) come to rest in N-S direction
- [C.](#) vibrating like galvanometer needle
- [D.](#) comes to rest after rotation

Answer: Option B

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