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NEET MOVING CHARGES AND MAGNETISM — SOLENOID AND TOROID — PYQS

Max. Marks: 12 **Questions:** 3

Section A (MCQ) — 3 questions

Q.1 A long solenoid of radius 1 mm has 100 turns per mm. If 1 A current flows in the solenoid, the magnetic field strength at the centre of the solenoid is [NEET (UG) 2022]

(1) 6.28×10^{-2} T (2) 12.56×10^{-2} T

(3) 12.56×10^{-4} T (4) 6.28×10^{-4} T

Scan or tap for the full solution

Q.2 A long solenoid of 50 cm length having 100 turns carries a current of 2.5 A. The magnetic field at the centre of the solenoid is :

($\mu_0 = 4\pi \times 10^{-7}$ T m A^{-1}) [NEET (UG) 2020]

(1) 3.14×10^{-4} T (2) 6.28×10^{-5} T

(3) 3.14×10^{-5} T (4) 6.28×10^{-4} T

Scan or tap for the full solution

Q.3 A long solenoid carrying a current produces a magnetic field B along its axis. If the current is doubled and the number of turns per cm is halved, the new value of the magnetic field is [AIPMT 2003]

(1) B/2 (2) B (3) 2B (4) 4B

Scan or tap for the full solution

ANSWER KEY

Ques.	1	2	3								
Ans.	**2**	**4**	**2**								