

CC3 (Electricity and Magnetism)

Internal Examination, Semester - II, F.M. - 10, Date: 08/07/2022, Time: 7:00 PM - 7:30 PM

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1. The permanent magnetic moment of the atoms of a material is zero. The material

- must be diamagnetic.
- must be paramagnetic.
- must be ferromagnetic.
- may be die-, para- or ferromagnetic.



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2. Magnetic material suitable for making permanent magnets must have

- very small B-H loop.
- high retentivity and low coercivity.
- low retentivity and high coercivity.
- high retentivity and high coercivity.

3. A circular coil of a single turn of thin conducting wire has self-inductance L . If the number of turns is increased to 8, the self-inductance would be

- $8L$
- $L/8$
- $64L$
- $2\sqrt{2} L$

4. The current passing through a choke coil of 1 H is decreasing at the rate of 2 A/s . Then, the emf developed in the coil is

- 2 V
- -2 V
- 0.5 V
- -0.5 V

5. A series ac circuit has a resistance of 3Ω and a reactance of 4Ω . The impedance of the circuit in units of Ω is

- 7.
- $12/7$.
- 5.
- 1.

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