

CC3 (Electricity and Magnetism)

Internal Examination, Semester - II, F.M. - 10, Date: 16/09/2021, Time: 12:00 PM - 12:30 PM

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1. Work done in displacing a charge $2e$ through a distance of 0.1 m on an equipotential surface is

- 0.2 J
- zero
- 20 J
- none of these

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2. An electric dipole is placed at the centre of a sphere. Then

- electric field is zero at every point on the sphere.
- electric field is zero everywhere within the sphere.
- total electric flux through the surface is zero.
- electric field is zero outside the sphere.

3. The net force on an electric dipole placed in a uniform electric field

- depends on the dipole moment.
- is always zero.
- depends on the strength of electric field.
- depends on the orientation of the dipole.

4. Which of the following statements is true for electrical image?

- It is always equal and opposite to the real charge.
- It may be real or virtual.
- It is always equal in magnitude to the real charge.
- It is always virtual
- none of the above is correct

5. Which one of the following is not a characteristic of magnetostatic field?

- It is solenoidal.
- It is conservative.
- Flux lines are always closed.
- Net magnetic flux through a closed surface is always zero.

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