

Assignment-2021
2nd semester Generic
Paper code: PHY-GE-2016
Electricity and magnetism
Total marks = 30

1. Define Biot-Savert law and Ampere's law in magnetostatics. Determine the magnetic field due to finite current carrying element using Biot-Savert law. Hence determine the magnetic field at the center of an equilateral triangular current carrying element carrying current 'I' in clockwise direction. 3+7+5 =15 marks
2. Derive the expressions of capacitance for parallel plate capacitor, spherical capacitor and cylindrical capacitor, respectively? 5+5+5=15 marks.

(Note: Equations, diagrams, graphical representations are always appreciated wherever necessary)