

# Government General Degree College, Chapra

Internal Examination of 5<sup>th</sup> Semester 2020-21

Paper: PHY-G-DSE-T-01

Total Marks: 15

Time: 45 minutes

**Answer any 15 marks questions only:**

1. What do you mean by electrostatic shielding? 2
2. Define electric dipole. 2
3. What is the 'SI' unit of electric dipole? 1
4. What is the properties of an ideal electric dipole? 2
5. Derive the electric field intensity at a point on the equatorial line due to an electric dipole. 4
6. What do you mean by torque on an electric dipole in a uniform electric field? 2
7. Discuss the limitations of Coulomb's law. 2
8. State the principle of superposition of charge. 2
9. Write down the properties of electric lines of force. 4
10. Why do electric lines of force never intersect each other? 2