Government General Degree College, Chapra

Internal Examination of 5th Semester 2023-24

Paper: PHY-G-DSE-T-01

Total Marks: 15	Time: 45 minutes
Answer any 15 marks questions only:	
1. State the Coulomb's Law.	2
2. Show that the Coulomb force is consistent with Newto	n's third law of
motion.	2
3. Discuss the limitations of Coulomb's law.	2
4. State the principle of superposition of charge.	2
5. Write down the properties of electric lines of force.	4
6. Why do electric lines of force never intersect each other	er? 2
7. What do you mean by electrostatic shielding?	2
8. Define electric dipole.	2
9. What is the 'SI' unit of electric dipole?	1
10. What is the properties of an ideal electric dipole?	2
11. Derive the electric field intensity at a point on the axia	l line due to an
electric dipole.	4
12. Derive the electric field intensity at a point on the equ	atorial line due to an
electric dipole.	4
13. What do you mean by torque on an electric dipole in a	uniform electric
field?	3
14. What is the 'SI' unit of torque?	1