Term test -1, Time: 50 Minute, Full marks: 20, Answer any Two

1(a)	Define Couloumb.	
(b)	Describe quantization of charge.	2
(c)	Show that the electrical force is about 10 ³⁹ times stronger than the gravitational force.	4
	times stronger than the gravitational force.	4
2(a) (b)	Define electric dipole moment and electric field.	3
(~)	Calculate the electric field E for points on the ring at a distance x from its center. If $x > a$, show that the ring behaves like a point charge. Where "a" is the radius of the ring.	3 7
	a point charge. Where a is the radius of the ring.	
3(a)	What is line of force? Draw the lines of force for the	
	(a) Positive point charge, (b) Negative point charge, (d) dipole and (e) Two positive charges.	1+2
(b)	How can we are able to produce Uniform electric field	
(c)	When a particle of mass and charge +q is placed at rest in a uniform electric field and released, describe its motion.	2
	describe its motion.	5
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