DPP						
Daily Practice		Topic : Electrostatics			Time : 30 min.	
Pro	blem	DPP No. 161			Total Marks : 56 Max.	
Ph	ysics					
Type of Questions						
	Single choice Objective ('-1' negative marking) Q. 1 to Q. 14					
Q 1)	The unit of	of charge is				
	A) volt	t	B)	coulomb		
>	C) ohn	n	D)	ampere		
Q 2)	When a n	negatively charged conductor is connected t	o earth			
	A) Electrons now from the earth to the			Electrons flow from the cor	iductor to the earth	
	C) Drea	lauctor	5)	No shawaa flass aassum		
	C) Pro	tons flow from the conductor to the	נט	No charge flow occurs		
0.2)	ear A popdul	editii A nondulum bob of mass m carrying a sharge g is at rost with its string making an angle A with the vortical in a				
QSJ	uniform horizontal electric field F. The tension in the string is					
	$\Delta$ ) $qE$ $R$ $qE$					
	$r_{j} = \frac{1}{\cos \theta}$	9	IJ	sinθ		
	C) mg	1	D)	<u>mg</u> sin A		
Q 4)	Conducto					
	A) that allow movement of protons		B)	that allow movement of neutrons		
	C) that allow movement of electrons			that allow only random movement of electrons		
Q 5)	Ionization of a neutral atom is the					
	A) only gain of one or more neutrons		B)	gain or loss of one or more electrons		
	C) only gain of one or more electrons		D)	only gain of one or more protons		
Q 6)	Gravitatio	Gravitational force is the smallest between				
	A) ear	A) earth and the moon		two pens weighing 100gms at a distance of 0.4 m		
	C) ear	th and the sun	D)	two books of weight 1kg ea	ach at a distance of 1 m	
Q 7)	Electric cl	Electric charge				
	A) is a	A) is a property of neutrons only		is a property of particles su	ch as atoms,ions,	
				electrons etc		
	C) is a	property of protons only	D)	is a property of electrons o	nly	
Q 8)	A soap bu	A soap bubble is given negative charge. Its radius will				
	A) Incr	rease	B)	Decrease		
	C) Ren	nain unchanged	D)	Fluctuate		
Q 9)	Which of	the following charge is not possible		10		
	A) 1.6	$5 \times 10^{-18}$	B)	$1.6 \times 10^{-19}$		
	C) 1.6	C) $1.6 \times 10^{-20}$ D) None of these				
Q 10)	Five balls	Five balls numbered 1 to 5 balls suspended using separate threads. Pair (1,2), (2,4) and (4,1) show electrostatic				
	attraction	n, while pair (2,3) and (4,5) show repulsion.	ineret	ore ball 1 must be		
	A) Pos	Sitively charged	B)	Negatively charged		
0 11)	C) Nei	utrai ius of a solid and hollow conner spheres ar	U)	which one can hold greater	charge	
QIII		id sola solid and nonow copper spheres are	e Same	Hollow sphere	unarge	
	() Bot	th will hold equal charge	נים וח	None of these		
0 12)	Number of electrons in one coulomb of charge will be					
~ 1	A) $5.46 \times 10^{29}$ B) $6.25 \times 10^{18}$					
	C) 1 6	$5 \times 10^{19}$	D)	$9 \times 10^{11}$		
Q 13)	The curre	ent produced in wire when 10 <sup>7</sup> electron/sec	are flo	owing in it		
-,,	A) $1.6 \times 10^{-26} amp$ B) $1.6 \times 10^{26} amp$					
	C) 1.6	$5 \times 10^{12}$ amp	_, D)	$1.6 \times 10^{-12} amn$		
Q 14)	In 1 gm o	f a solid, there are $5 \times 10^{21}$ atoms. If one e	, lectron	is removed from everyone	of 0.01% atoms of the	
- /	solid, the	charge gained by the solid is (given that ele	ectronio	c charge is $1.6 \times 10^{-19}$ C)		
	A) + 0.	.08 C	B)	+ 0.8 C		
	C) - 0.	08 C	D)	+-0.8 C		