91214_Classical Electrodynamics_2013_MOC

Item Text	Option Text 1	Option Text 2	Option Text 3	Option Text 4
Which of the component of the electric field intensity is always continuous at the boundary?	Tangential	normal	horizontal	vertical
Which of the following is a vector quantity ?	Relative permeability	Magnetic field intensity	Flux density	Magnetic potential
Which of the following identities is always zero for static fields.	Grad(Curl V)	Curl(Div V)	Div(Grad V)	Curl(Grad V)
The curl of the electric field intensity is	Conservative	Rotational	Divergent	Static
S.I unit of electric intensity is	N/C	N/C^2	NC	C
The Differential form of Gauss law is	Del.E=4πρ	del.E=ρ/ε_0	$\varepsilon_0$div.E = ρ	$\varepsilon_0$div.E = 4πб
If a proton is moved against the coulomb force of an electric field.	Work is done by the electric field	Energy is used from some outside source	The strength of the field is decreased	The energy of the system is decreased
Relation between D,E and P is	$D = \varepsilon_0 E + P$	$D = \varepsilon_0 E$	$D = K\varepsilon_0 E$	D=E + P
A point charge +q is placed at a distance 'd' from the centre of grounded conducting sphere of radius 'a'. The method of image charge 'q' and distance 'b' is				
S.I Unit of electric polarization is	C/m^2	C/m	Cm	C
The Coulombs law states that,	Directly proportional to the product of the magnitude of the charges	Inversely proportional to the square of the distance between them	All of the above and	None of these
Correct statement of the following	Unlike charges repel	Coulombs law is expressed as F =	Like charges intracts each other.	Integral form of Gauss law is
In polar molecule which of the following statement is true..	The effective centre of positive charge does not coinside with effective centre of negative charge.	It has permanent dipole moment.	Example of polar molecule is H_2O	All of the above
The S.I unit of polarization	C/m^2	C/m	C	Meter
S.I unit of current density	A/m^2	Wb/Am	Tesla	N/C
An electric dipole is placed in non uniform electric field .it experiences	Only the force but no torque	Only a torque but no force	no torque and no net force	Both a torque and a net force
Identify which of the following is the unit of magnetic induction?	Weber	Weber/m	Tesla	weber.m

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What is unit of magnetic flux?	Weber	Weber/m	Tesla	weber.m
S.I. unit of magnetic induction 1tesla=	Weber per meter square	Weber per meter	weber meter	weber meter square
Two identical conducting balls having positive charges q1 and q2 are separated by a distance r. If they are made to touch each other and then separated to the same distance, the force between them will be ….....	Less than before	Same as before	More than before	Zero
AN electric dipole placed in a non-uniform electric field experiences	Both a torque and a net force	Only a force but no torque	Only a torque but no net force	No torque and no net force