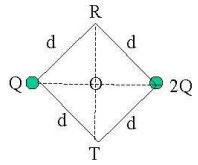
class2016		
R	Exam1	Exam2
R00801609	68	68
R01026470	84	68
R01077393	84	68
R01078460	100	68
R01083245	100	84
R01096647	84	52
R01124126	84	52
R01124355	84	68
R01173254	100	52
R01177331	100	36
R01305105	100	36
R01316004	100	68
R01316415	68	36
R01320803	84	52
R01323060	100	52
R01324215	100	52
R01327763	84	68
R01328521	84	52
R01329410	52	52
R01329827	100	20
R01331415	100	36
R01331479	84	36
R01335317	100	20
R01336246	100	52
R01336332	100	52
R01337940	68	52
R01338810	68	52
R01342892	100	68
R01344623	84	52
R01347660	100	68
R01347712	100	68
R01351700	100	84
R01368974	68	84
R01369514	100	68
R01371352	84	68
R01393833	100	52
R01394566	100	68

Summer 2016. Exam 2. QQ 1-3

#1. Choose the correct statement:

1. A hydrogen atom tends to go from a region of low potential to a region of high potential
2. A hydrogen atom tends to go from a region of weak electric field to a region of high electric field
3. If E = 0 at a point P then V must be a maximum at P
4. If V = 0 at a point P then E must be zero at P
5. None of the above are correct

#2.Points R and T are each a distance d from each of two particles with charges Q and 2Q The work required to move a particle Q to the point R is given by



1. kqQ/d^2
2. $0.3kqQ/d$
3. $kQq/(2d)$
4. 0

#3. A conducting sphere with radius R is charged until the electric field just outside its surface is E. The potential of the sphere, relative to the potential in its center, is:

1. zero
2. E/R
3. E/R^2
4. ER
5. ER^2

Summer 2016. Exam 2. QQ 4-6

#4. An electron volt is :

- the force acting on an electron in a field of 1N/C
- the force required to move an electron 1 meter
- the energy needed to move an electron through 1 meter in any electric field
- the work done when 1 coulomb of charge is moved through a potential difference of 1 volt.
- the energy gained by a proton electron in moving through a potential difference of 1 volt

#5.Two electrons are fixed 0.8 cm apart. Another electron is shot from the point midway between the two.
What is its final speed?

1. 0
2. 5 cm/s
3. 1000 m/s
4. 500 m/s
5. 300000 km/s

#6. Four flat plate capacitors of capacitance 1 nF each are connected to form an equilateral triangle. What is the capacitance between any two vertices of the triangle?

1. 10 N/C
2. 1.5 nC/V
3. 3 nF
4. 0.08 F/m
5. 1 nF