

Some useful constants:

$$k = 9 \times 10^9 \text{ Nm}^2\text{C}^{-2} ; N_A = 6.02 \times 10^{23} \text{ mol}^{-1} ; \mu_0 = 4\pi \times 10^{-7} \text{ H/m} ; k_B = 1.38 \times 10^{-23} \text{ J/K} ; R = 8.31 \text{ J.mol}^{-1}\text{K}^{-1}$$

1) (L.O.2) A solid sphere of radius $R = 5 \text{ cm}$ is made of non-conducting material and carries a total negative charge $Q = -12 \text{ C}$. The charge is uniformly distributed throughout the interior of the sphere. What is the magnitude of the electric potential V at a distance $r = 30 \text{ cm}$ from the center of the sphere, given that the potential is zero at $r = \infty$?

- A. $V = -7.20 \times 10^{22} \text{ V}$ B. $V = -3.60 \times 10^{22} \text{ V}$ C. $V = -1.20 \times 10^{22} \text{ V}$ D. $V = -2.16 \times 10^{22} \text{ V}$

2) (L.O.2) The segment of wire in Figure carries a current of $I = 4 \text{ A}$, where the radius of the circular arc is $R = 2 \text{ cm}$. Determine the magnitude and direction of the magnetic field at the origin.

- A. $9.4 \mu\text{T}$ B. $31.4 \mu\text{T}$
 C. $10.0 \mu\text{T}$ D. $26.2 \mu\text{T}$



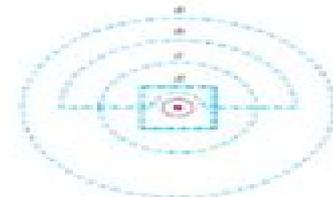
of

3) (L.O.2) What uniform magnetic field, applied perpendicular to a beam of electrons moving at $1.5 \times 10^6 \text{ m/s}$, is required to make the electrons travel in a circular arc of radius 0.4 m ?

- A. $1.35 \times 10^{-2} \text{ T}$ B. $2.135 \times 10^{-2} \text{ T}$ C. $3.53 \times 10^{-2} \text{ T}$ D. $4.63 \times 10^{-2} \text{ T}$

4) (L.O.1) Rank the magnitudes of $\oint \vec{B} \cdot d\vec{l}$ for the closed paths in Figure, from least to greatest

- A. $b < a < c < d$
B. $b < a = c = d$
 C. $d < c < a < b$
 D. $d < a = b = c$



5) (L.O.2) A solid spherical insulator has radius $R = 2.5 \text{ cm}$, and carries a total positive charge $Q = 8 \times 10^{-10} \text{ C}$ distributed uniformly throughout its volume. What is the potential V at a radius of 2 cm from the origin?

- A. 339.84 V B. 144 V C. 288 V D. 169.92 V

6) (L.O.1) A system undergoes an adiabatic process in which its internal energy increases by 50 J . Which of the following statements is true?

- A. 50 J of work was done on the system.
 B. 50 J of work was done by the system.
 C. the system received 50 J of energy as heat.
 D. the system lost 50 J of energy as heat.

7) (L.O.1) A magnetic field exerts a force on a charged particle:

- A. always.
B. if the particle is moving across the field lines.
 C. if the particle is moving along the field lines.
 D. if the particle is at rest.

8) (L.O.1) A positive charge is placed on a conducting sphere. The charge is distributed:

- A. non-uniformly on the sphere's surface.
 B. non-uniformly throughout the sphere's volume.
C. uniformly throughout the sphere's volume.

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