Electrotechnology 2B Test 1 13 September 2017

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Question 1

[10]

Let a point charge $Q_1 = 25$ nC be located at $P_1(4,-2, 7)$ and a charge $Q_2 = 60$ nC be at $P_2(-3, 4,-2)$. Find E at $P_3(1, 2, 3)$.

Question 2

[5]

An electric flux density is given by $\mathbf{D} = D_0 \mathbf{a}_p$, where D_0 is a given constant.

- (a) What charge density generates this field?
- (b) For the specified field, what total charge is contained within a cylinder of radius a and height b, where the cylinder axis is the z axis?

Question 3

[5]

A uniform surface charge density of 20 nC/m² is present on the spherical surface r = 0.6 cm in free space.

- (a) Find the absolute potential at $P(r = 1 \text{ cm}, \theta = 25^{\circ}, \varphi = 50^{\circ})$.
- (b) Find VAB, given points $A(r=2 \text{ cm}, \theta=30^\circ, \varphi=60^\circ)$ and $B(r=3 \text{ cm}, \theta=45^\circ, \varphi=90^\circ)$.

Question 4

[10]

Let $V = 10(\rho + 1)z^2 \cos \varphi V$ in free space.

- (a) Let the equipotential surface V = 20 V define a conductor surface. Find the equation of the conductor surface.
- (b) Find ρ and E at that point on the conductor surface where $\varphi = 0.2\pi$ and z = 1.5.
- (c) Find |os| at that point.

Total Mark Available: [30]

Constants:

$$\varepsilon_{\rm o} = 8.854 {\rm x} 10^{-12} \cong \frac{1}{36 \pi} {\rm x} 10^{-9}$$

$$\eta_{+} = \sqrt{\frac{\mu_{+}}{\varepsilon_{+}}} \cong 120\pi$$

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