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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Table of Contents Which Past Paper Is Related To Electrotechnology N2march 24

- 1. Understanding the eBook Which Past Paper Is Related To Electrotechnology N2march 24
 - o The Rise of Digital Reading Which Past Paper Is Related To Electrotechnology N2march 24
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Which Past Paper Is Related To Electrotechnology N2march 24
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Which Past Paper Is Related To Electrotechnology N2march 24
 - User-Friendly Interface

- 4. Exploring eBook Recommendations from Which Past Paper Is Related To Electrotechnology N2march 24
 - Personalized Recommendations
 - Which Past Paper Is Related To Electrotechnology N2march 24 User Reviews and Ratings
 - Which Past Paper Is Related To Electrotechnology N2march 24 and Bestseller Lists
- 5. Accessing Which Past Paper Is Related To Electrotechnology N2march 24 Free and Paid eBooks
 - Which Past Paper Is Related To Electrotechnology N2march 24 Public Domain eBooks
 - Which Past Paper Is Related To Electrotechnology N2march 24 eBook Subscription Services
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- 6. Navigating Which Past Paper Is Related To Electrotechnology N2march 24 eBook Formats
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 - Which Past Paper Is Related To Electrotechnology N2march 24 Compatibility with Devices
 - Which Past Paper Is Related To Electrotechnology N2march 24 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Which Past Paper Is Related To Electrotechnology N2march 24
 - Highlighting and Note-Taking Which Past Paper Is Related To Electrotechnology N2march 24
 - Interactive Elements Which Past Paper Is Related To Electrotechnology N2march 24
- 8. Staying Engaged with Which Past Paper Is Related To Electrotechnology N2march 24
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Which Past Paper Is Related To Electrotechnology N2march 24
- 9. Balancing eBooks and Physical Books Which Past Paper Is Related To Electrotechnology N2march 24
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Which Past Paper Is Related To Electrotechnology N2march 24
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Which Past Paper Is Related To Electrotechnology N2march 24
 - Setting Reading Goals Which Past Paper Is Related To Electrotechnology N2march 24
 - Carving Out Dedicated Reading Time

- 12. Sourcing Reliable Information of Which Past Paper Is Related To Electrotechnology N2march 24
 - Fact-Checking eBook Content of Which Past Paper Is Related To Electrotechnology N2march 24
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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