



**UNIVERSITY OF CAMBRIDGE
MATHEMATICAL TRIPOS 2015
PART 2B: PART A: PARTIAL DIFFERENTIAL EQUATIONS**

TITLE OF EXAMINATION: Part 2B and Part 2A

DATE: 10th November 2015

EXAMINATIONS: 2015 (see also the examination schedule)

SESSION: Part 2A

EXAMINATIONS: 2015 (see also the examination schedule)

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Question 1

- (a) Suppose that the function $u(x, y, z)$ satisfies the Laplace equation $\Delta u = 0$ in the region R defined by $0 < x < 1$, $0 < y < 1$, $0 < z < 1$. Suppose that $u = 0$ on the boundary of R except on the face $x = 1$, where $u = 1$. Suppose that u is bounded in R . Show that u is the unique solution of the Dirichlet problem for the Laplace equation in R with boundary data $u = 0$ on the boundary of R except on the face $x = 1$, where $u = 1$.

- (b) Suppose that the function $u(x, y, z)$ satisfies the Laplace equation $\Delta u = 0$ in the region R defined by $0 < x < 1$, $0 < y < 1$, $0 < z < 1$. Suppose that $u = 0$ on the boundary of R except on the face $x = 1$, where $u = 1$. Suppose that u is bounded in R . Show that u is the unique solution of the Dirichlet problem for the Laplace equation in R with boundary data $u = 0$ on the boundary of R except on the face $x = 1$, where $u = 1$.

$$u(x, y, z) = \frac{1}{2} \left(1 - \frac{x}{2} \right) \left(1 - \frac{y}{2} \right) \left(1 - \frac{z}{2} \right)$$

(10%)

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Question 2

Suppose that the function $u(x, y, z)$ satisfies the Laplace equation $\Delta u = 0$ in the region R defined by $0 < x < 1$, $0 < y < 1$, $0 < z < 1$. Suppose that $u = 0$ on the boundary of R except on the face $x = 1$, where $u = 1$. Suppose that u is bounded in R . Show that u is the unique solution of the Dirichlet problem for the Laplace equation in R with boundary data $u = 0$ on the boundary of R except on the face $x = 1$, where $u = 1$.

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Table of Contents Unified Exam 2015 2016 Ssbiology Ogun State

1. Understanding the eBook Unified Exam 2015 2016 Ssbiology Ogun State
 - The Rise of Digital Reading Unified Exam 2015 2016 Ssbiology Ogun State
 - Advantages of eBooks Over Traditional Books
2. Identifying Unified Exam 2015 2016 Ssbiology Ogun State
 - 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 Unified Exam 2015 2016 Ssbiology Ogun State
 - User-Friendly Interface
4. Exploring eBook Recommendations from Unified Exam 2015 2016 Ssbiology Ogun State
 - Personalized Recommendations
 - Unified Exam 2015 2016 Ssbiology Ogun State User Reviews and Ratings

- Unified Exam 2015 2016 Ssbiology Ogun State and Bestseller Lists
- 5. Accessing Unified Exam 2015 2016 Ssbiology Ogun State Free and Paid eBooks
 - Unified Exam 2015 2016 Ssbiology Ogun State Public Domain eBooks
 - Unified Exam 2015 2016 Ssbiology Ogun State eBook Subscription Services
 - Unified Exam 2015 2016 Ssbiology Ogun State Budget-Friendly Options
- 6. Navigating Unified Exam 2015 2016 Ssbiology Ogun State eBook Formats
 - ePub, PDF, MOBI, and More
 - Unified Exam 2015 2016 Ssbiology Ogun State Compatibility with Devices
 - Unified Exam 2015 2016 Ssbiology Ogun State Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Unified Exam 2015 2016 Ssbiology Ogun State
 - Highlighting and Note-Taking Unified Exam 2015 2016 Ssbiology Ogun State
 - Interactive Elements Unified Exam 2015 2016 Ssbiology Ogun State
- 8. Staying Engaged with Unified Exam 2015 2016 Ssbiology Ogun State
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Unified Exam 2015 2016 Ssbiology Ogun State
- 9. Balancing eBooks and Physical Books Unified Exam 2015 2016 Ssbiology Ogun State
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Unified Exam 2015 2016 Ssbiology Ogun State
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Unified Exam 2015 2016 Ssbiology Ogun State
 - Setting Reading Goals Unified Exam 2015 2016 Ssbiology Ogun State
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Unified Exam 2015 2016 Ssbiology Ogun State
 - Fact-Checking eBook Content of Unified Exam 2015 2016 Ssbiology Ogun State
 - 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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