

WISDOM FOUNTAIN COLLEGE
OGHARA, DELTA STATE OF NIGERIA
FIRST TERM EXAMINATION 2024/2025 ACADEMIC SESSION
SUBJECT: PHYSICS
DURATION: 2 HOURS

SECTION A

(Answer all questions in this section)

1. What does the horizontal component of a vector represent?
(a) Total magnitude of the vector (b) The projection of the vector along the horizontal axis (c) The projection of the vector along the vertical axis (d) The vector itself
2. Which mathematical method is often used to resolve a vector into its components?
(a) Calculus (b) Pythagoras theorem (c) Trigonometry (d) Differential equations
3. Which of the following is NOT a property of a vector?
(a) Magnitude (b) Direction (c) Angle (d) Mass
4. In vector addition, the resultant vector is defined as:
(a) The sum of scalar quantities (b) The vector sum of two or more vectors (c) The difference of magnitudes (d) A perpendicular vector
5. Two forces of magnitude 12 N and 16 N act on a body at 90° to each other. What is the magnitude of the resultant force?
(a) 20 N (b) 25 N (c) 15 N (d) 10 N
6. A car moves with a velocity vector of 80 km/h in a direction 30° north of east. Find the eastward (horizontal) component of the velocity.
(a) 40 km/h (b) 69.28 km/h (c) 80 km/h (d) 20 km/h
7. A vector is resolved into components and . What is the magnitude of the resultant ?
(a) 15 N (b) 20 N (c) 25 N (d) 30 N
8. A body is acted upon by two forces, 30 N and 40 N, at 90° to each other. What is the resultant force?
(a) 50 N (b) 70 N (c) 35 N (d) 45 N
9. The process of resolving a vector into two perpendicular components is called:
(a) Vector addition (b) Vector resolution (c) Vector subtraction (d) Vector multiplication
10. Which of the following represents a correct resolution of a force acting at an angle to the horizontal?
(a) (b) (c) (d)

SECTION B (THEORY QUESTIONS)

(Answer only 4 questions Correctly)

1. (a) In a tabular form, state four differences between:
i. Distance and Displacement
ii. Scalar and Vector
(b) Calculate the Distance between the following pairs of points
i. P(-3, -20, -5) and Q(2, -10, 5)
2. An object is acted upon by two forces 5N and 12N, calculate the result of the forces if:
i. The forces are parallel and act in opposite direction
ii. The forces are parallel and act in the same direction
iii. The forces are perpendicular to each other
iv. The forces act at an angle of 30° to each other
v. The forces act at an angle of 125° to each other
3. (a) A Student walks a distance of 710metre from his home for 12 minutes to a bookshop close to the school to buy a notebook. After buying the book, he walks a further distance of 490metre until he gets to the school 8 minutes later. Find the average speed of the student in the whole journey.
4. A boy walks a distance of 30m in 20 minutes. Calculate his average speed in:
(a) (i) Km/hr (ii) Cm/s (iii) m/s
(b) Define the following: (i) Uniform Speed, (ii) Average speed
5. A wheelbarrow inclined at 30° to the horizontal is pushed with force of 150N.
(i) What is the Vertical component of the applied forces?
(ii) What is the Horizontal component of the applied forces?
(iii) In what direction will the wheelbarrow move and why?

2015 Ss2 3rd Term Questions

Davide Taibi, Darja Smite



2015 Ss2 3rd Term Questions:

Software Engineering and Advanced Applications Davide Taibi, Darja Smite, 2025-09-09 This three volume set constitutes the refereed proceedings of the 51st Euromicro Conference on Software Engineering and Advanced Applications SEAA 2025 held in Salerno Italy during September 10-12 2025. The 62 full papers were carefully reviewed and selected from 177 submissions. These papers were organized in the following topical sections: Part I Data and AI Driven Engineering, Cyber Physical Systems, Model Driven Engineering and Modeling Languages; Part II Practical Aspects of Software Engineering, Systematic Literature Reviews and Mapping Studies in Software Engineering; Part III Software Management, Measurement, Peopleware and Innovation, Software Process and Product Improvement, Software Analytics, Mining Software Open Datasets and Repositories, Emerging Computing Technologies.

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Developments in Language Theory Igor Potapov, 2015-07-17 This book constitutes the proceedings of the 19th International Conference on Developments in Language Theory DLT 2015 held in Liverpool UK. The 31 papers presented together with 5 invited talks were carefully reviewed and selected from 54 submissions. Its scope is very general and includes among others the following topics and areas: combinatorial and algebraic properties of words and languages, grammars, acceptors and transducers for strings, trees, graphs, arrays, algebraic theories for automata and languages, codes, efficient text algorithms, symbolic dynamics, decision problems, relationships to complexity theory and logic, picture description and analysis, polyominoes and bidimensional patterns, cryptography, concurrency, cellular automata, bio-inspired computing and quantum computing.

Machine Learning and Knowledge Discovery in Databases Annalisa Appice, Pedro Pereira Rodrigues, Vítor Santos Costa, Carlos Soares, João Gama, Alípio Jorge, 2015-08-28 The three volume set LNAI 9284, 9285 and 9286 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2015 held in Porto, Portugal in September 2015. The 131 papers presented in these proceedings were carefully reviewed and selected from a total of 483 submissions. These include 89 research papers, 11 industrial papers, 14 nectar papers and 17 demo papers. They were organized in topical sections named: classification,

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Karen language, embracing both dialects, Sgau and Pgho or Sho. (Sgau index, Pgho or Sho index.). Francis Mason,1846 *Protecting National Security* Phil Glover,2021-07-27 This book contends that modern concerns surrounding the UK State s investigation of communications and more recently data whether at rest or in transit are in fact nothing new It evidences how whether using common law the Royal Prerogative or statutes to provide a lawful basis for a state practice traceable to at least 1324 the underlying policy rationale has always been that first publicly articulated in Cromwell s initial Postage Act 1657 namely the protection of British national security broadly construed It further illustrates how developments in communications technology led to Executive assumptions of relevant investigatory powers administered in conditions of relative secrecy In demonstrating the key role played throughout history by communications service providers the book also charts how the evolution of the UK Intelligence Community entry into the UKUSA communications intelligence sharing agreement 1946 and intelligence community advocacy all significantly influenced the era of arguably disingenuous statutory governance of communications investigation between 1984 and 2016 The book illustrates how the 2013 Intelligence Shock triggered by publication of Edward Snowden s unauthorized disclosures impelled a transition from Executive secrecy and statutory disingenuousness to a more consultative candid Executive and a policy of transparent secrecy now reflected in the Investigatory Powers Act 2016 What the book ultimately demonstrates is that this latest comprehensive statute whilst welcome for its candour represents only the latest manifestation of the British state s policy of ensuring protection of national security by granting powers enabling investigative access to communications and data in transit or at rest irrespective of location **Certified Rehabilitation Counselor Examination Preparation, Second Edition** Fong

Chan,Malachy Bishop,Julie Chronister,Julie A. Chronister,Eun-Jeong Lee,Chung-Yi Chiu,2017-10-28 Print version of the book includes free access to the app web iOS and Android which offers interactive Q A review plus the entire text of the print book Please note the app is included with print purchase only Praise for the First Edition from successful students on Amazon com 100% recommended to those who will take the CRC I used this to prepare for the CRC exam and passed I passed my CRCE and this was the only guide I used App included with purchase See inside front cover for access instructions This concise practical study guide now in its second edition offers a complete detailed review of the certified rehabilitation counselor exam to help graduate students and professionals in rehabilitation counseling effectively prepare for and pass the exam Authored by rehabilitation counselor educators cited for their teaching effectiveness research and scholarship this fully revised and updated second edition reflects the new expanded curriculum standards regarding counseling psychotherapy

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Table of Contents 2015 Ss2 3rd Term Questions

1. Understanding the eBook 2015 Ss2 3rd Term Questions
 - The Rise of Digital Reading 2015 Ss2 3rd Term Questions
 - Advantages of eBooks Over Traditional Books
2. Identifying 2015 Ss2 3rd Term Questions
 - 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 2015 Ss2 3rd Term Questions
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2015 Ss2 3rd Term Questions
 - Personalized Recommendations
 - 2015 Ss2 3rd Term Questions User Reviews and Ratings
 - 2015 Ss2 3rd Term Questions and Bestseller Lists
5. Accessing 2015 Ss2 3rd Term Questions Free and Paid eBooks

- 2015 Ss2 3rd Term Questions Public Domain eBooks
 - 2015 Ss2 3rd Term Questions eBook Subscription Services
 - 2015 Ss2 3rd Term Questions Budget-Friendly Options
6. Navigating 2015 Ss2 3rd Term Questions eBook Formats
- ePub, PDF, MOBI, and More
 - 2015 Ss2 3rd Term Questions Compatibility with Devices
 - 2015 Ss2 3rd Term Questions Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of 2015 Ss2 3rd Term Questions
 - Highlighting and Note-Taking 2015 Ss2 3rd Term Questions
 - Interactive Elements 2015 Ss2 3rd Term Questions
8. Staying Engaged with 2015 Ss2 3rd Term Questions
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2015 Ss2 3rd Term Questions
9. Balancing eBooks and Physical Books 2015 Ss2 3rd Term Questions
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2015 Ss2 3rd Term Questions
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 2015 Ss2 3rd Term Questions
- Setting Reading Goals 2015 Ss2 3rd Term Questions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2015 Ss2 3rd Term Questions
- Fact-Checking eBook Content of 2015 Ss2 3rd Term Questions
 - 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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