

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



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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

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

Unlocking Criminal Law Tony Storey, 2017-07-14 UNLOCKING CRIMINAL LAW will help you grasp the main concepts of the subject with ease Containing accessible explanations in clear and precise terms that are easy to understand it provides an excellent foundation for learning and revising Criminal Law The information is clearly presented in a logical structure and the following features support learning helping you to advance with confidence Clear learning outcomes at the beginning of each chapter set out the skills and knowledge you will need to get to grips with the subject Key Facts boxes throughout each chapter allow you to progressively build and consolidate your understanding End of chapter summaries provide a useful check list for each topic Cases and judgments are highlighted to help you find them and add them to your notes quickly Frequent activities and self test questions are included so you can put your knowledge into practice Sample essay questions with annotated answers prepare you for assessment Glossary of legal terms clarifies important definitions

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

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