Subject: Computer Science

Year: 11

Paper 2 – Topic 4 – Boolean Logic **Paper 2 – Topic 1 – Algorithms** • **Paper 2 - Topic 4** • Simple logic diagrams using the operators AND, OR and NOT • Truth tables ¨ Combining Boolean operators using AND, OR and NOT • Applying logical operators in truth tables to solve problems **Paper Two – Algorithms** • Using abstraction,	**Paper 2 – Topic 2 – Programming Techniques (Additional 2.2.3)** **Paper 2 – Topic 3 – Producing Robust Programs** **Paper 2 - Revision (mock)** • Defensive design considerations: • Anticipating misuse • Authentication • Input validation • Maintainability: • Use of sub programs Naming conventions Indentation Commenting • Testing	**Paper 1 Focus and revision** **Paper 1 - Revision (mock)** • Exam style questions • Walkthrough – SAM	**Revision and Programming Challenges** • Reviewing past papers • Key questions • Exam technique • Revision documents • Identify and improve areas for development	**Revision and Programming Challenges** • Reviewing past papers • Key questions • Exam technique • Revision documents • Identify and improve areas for development	

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decomposition and algorithmic thinking • Creating pseudocode, flowcharts • Common errors • Trace tables • Searching and sorting algorithms • Binary search • Linear search • Bubble sort • Merge sort • Insertion sort	• The purpose of testing • Types of testing: • Iterative Final/terminal Identify syntax and logic errors • Selecting and using suitable test data: Normal • Boundary • Invalid/Erroneous **<u>Paper 2 - Topic 2</u>** • Continue with programming techniques (advanced) • SQL • Arrays/Records • Sub programs (functions and procedures) • String handling and manipulation • Advanced Iteration concepts • File handling				

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	• Generating random numbers (libraries) • Programming challenges • Pseudocode and flowcharts • Algorithms • Refining algorithms • Reflecting on and using previously taught techniques fluently • Variables, constants, operators, input/output and assignments. • Sequencing, selection and iteration • Boolean operators • Data types • Paper 2 - Revision (mock) • Exam style questions • Walkthrough – SAM				

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