

Mark Scheme - GCSE Computer Science J277 Paper 1 - Predicted 2024

Section A: Multiple Choice and Short Answer

Q	Correct Answer	Explanation
1.	D6	Binary 11010110 converts to hexadecimal D6 . The answer involves grouping binary digits into pairs from right to left, converting each pair to its hexadecimal equivalent.
2.	1. Process data 2. Manage system resources	The CPU processes instructions and manages the operations of all hardware and software.
3.	LAN	A Local Area Network (LAN) is ideal for a single building as it covers a small geographical area, providing high-speed network communication.
4.	Definition: Software designed to perform specific tasks for users. Example: Microsoft Word	Application software refers to programs designed to fulfil specific user needs, such as word processing, web browsing, etc. Microsoft Word is an example of application software used for document creation.
5.	A: 0 B: 0 Output: 0 A: 0 B: 1 Output: 0 A: 1 B: 0 Output: 0 A: 1 B: 1 Output: 1	An AND gate outputs true or 1 only if both inputs A and B are true or 1 . The truth table is completed based on this logic.

Section B: Structured Questions

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