

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

**Section A: Multiple Choice and Short Answer**

| <b>Q</b> | <b>Correct Answer</b>   | <b>Explanation</b>   |
|----------|---|--|
| 1.       | <b>D6</b>   | Binary <b>11010110</b> converts to hexadecimal <b>D6</b> . The answer involves grouping binary digits into pairs from right to left, converting each pair to its hexadecimal equivalent.                     |
| 2.       | 1. Process data<br>2. Manage system resources   | The CPU processes instructions and manages the operations of all hardware and software.  |
| 3.       | <b>LAN</b>  | 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.<br>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<br>A: 0 B: 1 Output: 0<br>A: 1 B: 0 Output: 0<br>A: 1 B: 1 Output: 1      | An AND gate outputs true or <b>1</b> only if both inputs A and B are true or <b>1</b> . The truth table is completed based on this logic.  |

**Section B: Structured Questions**

# Gcse Computer Science Mark Scheme Unit 02

## Computing

**O'Neil Duncan**



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