HND Level 100 - Computer Architecture Structured Questions and Answers

Section A: Internal Structure and Operation of a Microprocessor (20 Marks)

1. a. Define the term microprocessor and list two of its major functions. (4 marks)
Answer:
A microprocessor is an integrated circuit that performs arithmetic, logic, control, and input/output operations of a computer system. It acts as the brain of a computer.
Functions:
- Performs arithmetic and logical operations
- Controls other components of the computer system

b. Describe the internal structure of a basic microprocessor with a labeled diagram. (6 marks)
Answer:
The internal structure typically includes:
- Arithmetic Logic Unit (ALU)
- Control Unit
- Registers
- Buses (data, address, control)

[Include labeled diagram manually in class or on whiteboard]

c. Explain the function of the following microprocessor components: (6 marks)
i. ALU
Performs arithmetic and logic operations.
ii. Control Unit
Directs the operations of the processor.
iii. Registers
Temporary storage locations for instructions and data.

d. Outline the fetch-decode-execute cycle. (4 marks)
Answer:
- Fetch: Retrieve instruction from memory.
- Decode: Interpret the instruction.
- Execute: Carry out the instruction.

Section B: Computer Memory (20 Marks)

2. a. Define computer memory and distinguish between primary and secondary memory. (4 marks)

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RJ Alexander

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