

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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