

# HND Level 100 - Computer Architecture

## Structured Questions and Answers

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### 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)

# Computer Architecture Questions And Answers Objectives

**DJ Losen**



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## **Table of Contents Computer Architecture Questions And Answers Objectives**

1. Understanding the eBook Computer Architecture Questions And Answers Objectives
  - The Rise of Digital Reading Computer Architecture Questions And Answers Objectives
  - Advantages of eBooks Over Traditional Books
2. Identifying Computer Architecture Questions And Answers Objectives
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Computer Architecture Questions And Answers Objectives
  - User-Friendly Interface
4. Exploring eBook Recommendations from Computer Architecture Questions And Answers Objectives
  - Personalized Recommendations
  - Computer Architecture Questions And Answers Objectives User Reviews and Ratings
  - Computer Architecture Questions And Answers Objectives and Bestseller Lists

5. Accessing Computer Architecture Questions And Answers Objectives Free and Paid eBooks
  - Computer Architecture Questions And Answers Objectives Public Domain eBooks
  - Computer Architecture Questions And Answers Objectives eBook Subscription Services
  - Computer Architecture Questions And Answers Objectives Budget-Friendly Options
6. Navigating Computer Architecture Questions And Answers Objectives eBook Formats
  - ePub, PDF, MOBI, and More
  - Computer Architecture Questions And Answers Objectives Compatibility with Devices
  - Computer Architecture Questions And Answers Objectives Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Computer Architecture Questions And Answers Objectives
  - Highlighting and Note-Taking Computer Architecture Questions And Answers Objectives
  - Interactive Elements Computer Architecture Questions And Answers Objectives
8. Staying Engaged with Computer Architecture Questions And Answers Objectives
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Computer Architecture Questions And Answers Objectives
9. Balancing eBooks and Physical Books Computer Architecture Questions And Answers Objectives
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Computer Architecture Questions And Answers Objectives
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Computer Architecture Questions And Answers Objectives
  - Setting Reading Goals Computer Architecture Questions And Answers Objectives
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Computer Architecture Questions And Answers Objectives
  - Fact-Checking eBook Content of Computer Architecture Questions And Answers Objectives
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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