

Answer All Questions

QUESTION ONE:

1. Differentiate between open and closed architecture? Give an example?
2. Describe two of the operating system objectives and functions?
3. Determine the primary function of the memory interface?
4. Briefly describe the direct access method with example

QUESTION TWO:

1. Determine the primary instruction elements?
2. List three of the operand location?
3. Differentiate between Arithmetic and logic instruction with example?
4. Gives at least one function for the following microprocessor registers?

- i. Flag register
- ii. Program counter(PC)
- iii. Memory address register(MBR)
- iv. Memory Buffer register(MBR)

QUESTION FOUR:

1. Carefully explain the meaning of the following terms?
 - USB.
 - POST.
 - Bus Mastering.
2. Determine the basic three parts in computer system model.
3. Due to computer architecture concepts determine components or device that use for each of the following process?

- i. Instruction recognition.
- ii. Instruction decoding.
- iii. Terminal connection.
- iv. Speed matching.

4. Describe two of the computer architecture design objectives?

QUESTION FIVE:

1. Determine in details the parameters for interfacing I/O techniques?
2. Briefly list Von Neumann machine characteristics?
3. Mention three of the basic I/O port interfaces that are used in computer systems and then give at least one example of terminal device use for each one of the ports.
4. Determine the parameters that are used to provide Plug and Play features?

*[End of Question Paper]
(Good Luck)*

Eng: Babekir A. Rahman Osman