Total No. of Questions : 8]   *[Total No. of Printed Pages : 2*

Roll No ....

MCADD-201

M.C.A. (Integrated), II Semester

Examination, June 2020

Computer Architecture

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Draw the block diagram of computer and explain its functions.

   b) What is Memory? Explain memory capacity.

2. a) Explain the instruction cycle and different types of instructions.

   b) Explain different types of logical shift-micro-operations.

3. a) Explain the interrupt cycle and program interrupt.

   b) Explain the Handshaking method of Asynchronous data transfer.

4. a) Discuss the various types of Addressing Modes.

   b) Discuss the concept of DMA.

5. a) Explain the architecture of 8086 with suitable diagram.

   b) What is synchronous and Asynchronous data transfer?

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6. a) Discuss the concept of paging and it's advantages.

    b) What is Associative Memory?

7. a) What is static and Dynamic RAM?

    b) Explain Cache-memory and it's function and Hit ratio.

8. Write short notes on any three:

    i) Instruction format

    ii) Bus structure and concept of Bus

    iii) Register transfer language

    iv) Bus system for four registers

    v) Building large memories using chips

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