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Roll No

MCADD-201

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

Examination, November 2019

Computer Architecture

Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) What are the main sections of CPU? Discuss the function of each section.
b) What is Memory? Explain its types.
2. a) What operations are performed by ALU? Discuss.
b) Explain instruction format. What are its types?
3. a) Discuss various types of addressing modes Which are usually provided in a microprocessor.
b) Explain instruction cycle, machine cycle and states.
4. a) What do you understand by interrupts? Explain hardware and software interrupts.
b) Explain synchronous and asynchronous data transfer.
5. a) Describe RAM, ROM and Nonvolatile RAM with their merits and demerits.
b) Explain the function of cache memory. Also discuss cache hit and cache miss.

6. Explain the architecture of 8086. Also discuss its addressing Modes.
7. a) What is Paging? What are its advantages?
b) Explain the concept of virtual memory.
8. Write short notes on any four:
 - i) Register transfer language
 - ii) Static and dynamic RAM
 - iii) Associative memory
 - iv) Bus structures and concept of bus
 - v) Interrupt cycle
