

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

M.Sc.(Computer Science) (2019 & Onwards) (Sem.-2)

COMPUTER ORGANISATION

Subject Code : MSC-202

M.Code : 71446

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students has to attempt any ONE question from each SECTION.
2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.

SECTION-A

1. Discuss the role of micro operations. For what purpose, the arithmetic micro operations are used?
2. Describe the various aspects of basic computer organization and design.

SECTION-B

3. Discuss the principal advantages of using microprogramming to implement a control unit.
4. Diagrammatically represent the various components of BCD adder and explain their functioning.

SECTION-C

5. Discuss the daisy-chain priority interrupt in detail.
6. Write the basic steps for four-segment CPU pipeline.

SECTION-D

7. Define Auxiliary Memory. Differentiate between magnetic disk and magnetic tape.
8. Discuss the cache coherence problem. Give the solutions to cache coherence problem.

SECTION-E

9. Short answer type questions :

- a. Define register transfer language.
- b. What is the purpose of hardwired control?
- c. Give example of LDA instruction.
- d. Write any two characteristics of pipeline register.
- e. List various conditional branch instructions.
- f. What is instruction pipeline?
- g. What does input-output processor provide?
- h. Discuss DMA controller.
- i. What is the need of bootstrap loader?
- j. What is virtual memory?

downloaded from
StudentSuvidha.com

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.