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Total No. of Pages : 02

Total No. of Questions : 07

B.Sc.(IT) (2013 & 2014) (Sem.-3)
COMPUTER SYSTEM ARCHITECTURE
Subject Code : BS-201
M.Code : 12513

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and a student has to attempt any FOUR questions.

SECTION-A

1. Answer briefly :

- a. Explain the significance of fourth generation in evolution of computers.
- b. What is program counter?
- c. What is stack pointer?
- d. What is postfix notation?
- e. Differentiate between external and internal interrupts.
- f. Explain pseudo instruction.
- g. What is machine language?
- h. Differentiate between software and hardware interrupt.
- i. What is auxiliary memory?
- j. What is hit ratio?

SECTION-B

2. Explain the evolution of computers.
3. Explain the design of basic computer in detail.
4.
 - a. How to convert infix notation to reverse polish notation? Explain with a suitable example.
 - b. Explain the types of interrupts.
5. Differentiate between :
 - a. Assembly language and machine language.
 - b. Arithmetic shift and logical shift operations.
6. Explain the mapping procedures required for organization of cache memory.
7.
 - a. Explain isolated versus memory mapped I/O.
 - b. Explain the modes of data transfer.

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.