



GENERAL INSTRUCTIONS TO THE CANDIDATES

1. Candidates are instructed to answer the questions as per Bloom's Taxonomy knowledge level (K₁ to K₆)
2. Candidates are strictly instructed not to write anything in the question paper other than their roll number.
3. Candidates should search their pockets, desks and benches and handover to the Hall Superintendent/ Invigilator if any paper, book or note which they may find therein as soon as they enter the examination hall.
4. Candidates are not permitted to bring electronic watches with memory, laptop computers, personal systems, walkie-talkie sets, paging devices, mobile phones, cameras, recording systems or any other gadget / device /object that would be of unfair assistance to him / her.
5. Corrective measures as per KCT examination policies will be imposed for malpractice in the hall like copying from any papers, books or notes and attempting to elicit the answer from neighbours.

B.E DEGREE EXAMINATIONS: DEC 2015

(Regulation 2014)

Third Semester

COMPUTER SCIENCE & ENGINEERING

U14CST302 : Computer Architecture

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Match the following:

CO1 [K₁]

List I	List II
A. Machines that store operands in stack	i. addressing modes
B. Different ways in which operand location is specified in an instruction	ii. Register mode
C. Program counter	iii. zero address instructions
D. Operand is in processor register	iv. Relative mode

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| 22. (i) How do you classify the addressing modes? Explain with examples. | (7) | CO1 | K ₂ |
| (ii) Compare the characteristic features of stacks and queues. | (7) | | K ₂ |
| 23. What is a cache? Explain the types of cache memory with neat sketches. | | CO2 | K ₂ |
| 24. Discuss the operation of a Floating point adder/ subtractor unit with a block diagram. | | CO3 | K ₂ |
| 25. Explain the working of a hardwired control unit with relevant sketches. | | CO4 | K ₂ |
| 26. What do you mean by DMA? Describe the concept of data transfer using DMA. | | CO5 | K ₂ |
