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Total No. of Questions: 07

Total No. of Pages: 02

BCA (Sem. 2)

COMPUTER SYSTEM ARCHITECTURE

Subject Code: BSBC-204

Paper ID: B1116

Time: 03 Hrs.

Max. Marks: 60

INSTRUCTIONS 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 students have to attempt any FOUR questions.

SECTION A

1. Briefly answer the following questions-
 - a) What is Stored Program concept?
 - b) Define SISD, SIMD and MIMD.
 - c) Differentiate between Data bus, Control bus and Address bus.
 - d) What is the difference between direct and indirect address instructions?
 - e) What is an Interrupt?
 - f) What is strobe control in asynchronous data transfer?
 - g) What is control memory?
 - h) What do you mean by DMA?
 - i) Briefly discuss LPU algorithm.
 - j) What is Android architecture?

SECTION B

2. Discuss with examples various arithmetic, logic and shift micro-operations.
3. Explain the instruction cycle of a computer?

4. Define and distinguish between Hardwired and Micro-programmed control. Is it possible to have a hardwired control associated with a control memory?
5. What is Input-output Interface? Briefly discuss and compare the following I/O schemes:
(i) Programmed I/O (ii) Interrupt driven I/O
6. Explain memory hierarchy and discuss different types of memory.
7. Define Cache memory. What are the various memory mapping procedures involving cache memory? Explain.