

(Following Paper ID and Roll No. to be filled in your Answer Books)

PAPER ID : 110322

Roll No.

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**B. TECH.****MODEL TEST PAPER****COMPUTER ORGANIZATION & ARCHITECTURE***Time: 3 Hours**Total Marks: 100*

Note: Attempt all Sections. If require any missing data; then choose suitably.

**SECTION - A**1. Attempt all questions in brief. **2 x 10 = 20**

- a. What is I/O Control Method?
- b. Define Control Word?
- c. State the differences between RISC & CISC?
- d. List three types of Control Signals?
- e. List the various semiconductors RAM's?
- f. What is the difference between 2D & 2 1/2D Organization?
- g. Which Cache is faster L1 or L2?
- h. Define Multiplexer & De-Multiplexer?
- i. What is micro-operation? Give four examples of microinstructions?
- j. Draw the basic functional units of computer?

**SECTION - B**2. Attempt any three of the following: **10 x 3 = 30**

- a. Discuss Bus Arbitration in detail?
- b. Explain and draw the timing diagram for instruction cycle?
- c. Explain 2D and 2<sup>1/2</sup>D Memory Organization with the help of suitable examples?
- d. Describe asynchronous data transfer? What are the methods through which it can be achieved? Explain strobe control and handshaking?
- e. What is Carry Look ahead Adder? Design & explain 4-bit Carry Look ahead Adder?

**SECTION - C**3. Attempt any one part of the following: **10 x 1 = 10**

- (a) ) Explain Booth's algorithm with its flow chart and hardware configuration. Multiply (-9) and (+15) using Booth's algorithm.
- (b) Explain different kinds of addressing mode in detail with the help of example? Define the role of program counter in addressing mode?

4. Attempt any one part of the following: **10 x 1 = 10**

- (a) Explain Micro programmed Control Unit in detail? Mention its advantages and disadvantage too.
- (b) Write a program to evaluate the arithmetic statement

# Model Question Paper Subject Code Mb0042 Subject

**Kathleen Armour**



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