E-3921

B. C. A. (Part - III) EXAMINATION : 2021

(Old Course)

Paper Third

COMPUTER SYSTEM ARCHITECTURE

(301)

Time : Three Hours]   [Maximum Marks : 50

Note :-Attempt **any two** questions from each unit. All questions carry equal marks.

UNIT -1

1. Explain Octal and Hexa decimal Number system with examples.
2. Explain ASCII, BCD and Grey code.
3. Write various Arithmetic operation on Binary numbers.

UNIT -2

1. Explain the concept of Logic Gates. Also explain different logic gates along with truth table.
2. What is K map? Explain sum of product and product of sum.
3. Differentiate between combinational and sequential circuits.

UNIT -3

1. Explain Micro processor architecture along with diagram.
2. Explain motherboard and SMPS in detail.
3. What is system bus? Explain its types with example.

UNIT -4

1. Explain various I/O transfer technique.
2. Differentiate I/O mapped I/O and memory mapped I/O.
3. Explain various data transfer techniques.

UNIT -5

1. What is memory hierarchy?   Explain with diagram.
2. Write short note on semiconductor memory and page replacement a

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