

## **ED-326**

M.Sc. 1st Semester Examination, March-April 2021

## **COMPUTER SCIENCE**

Paper - V

Computer System Architecture

Time: Three Hours] [Maximum Marks: 100

[Minimum Pass Marks: 40

**Note**: Answer any **two** parts from each question. All questions carry equal marks.

- **1.** (a) What is flip-flop? Explain the working of R-S flip-flop.
  - (b) Explain the working of full adder with a truth table.
  - (c) Explain Decoder.
- **2.** (a) Explain movement of data from memory.
  - (b) What is bus? Explain different types of bus.

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(Turn Over)

- (c) Explain arithmatic and logical operation used in register transfer.
- **3.** (a) Explain different types of instructions.
  - (b) Describe simple properties of I/O devices and their controllers.
  - (c) Explain input-output organization.
- **4.** (a) Explain stack organization.
  - (b) Explain parallel processing.
  - (c) Wha is assembler? Explain assembly language with example.
- 5. (a) Explain different types of data transfer.
  - (b) Explain data communication processor.
  - (c) What is memory? Describe memory hierarchy in detail.

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