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.

(*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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