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LOYOLA COLLEGE (AUTONOMOUS), CHENNAI - 600 034

B.Sc. DEGREE EXAMINATION – **COMPUTER SCIENCE**

Date: 31-10-2018 Time: 09:00-12:00

Answer **ALL** the Questions

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(OR)

- ii) Describe in detail about Dflip flop
- 12)i) Discuss in detail about the decoder with their logic diagram and its truth table.

(OR)

ii) What is Shift Register? Explain about bidirectional shift register with parallel load.





13) i) Explain in detail about the computer Instruction Formats.

(OR)

ii) Discuss about how Direct and Indirect address is referred in memory

14). i) Explain the Memory Reference instructions

(OR)

ii) Explain in detail about the Input-Output configuration and their instructions.

15) i) Explain in detail about the different types of address instructions with an example.

(OR)

ii) With a neat diagram, explain in detail about the status bit registers.

Section - C

Answer any **TWO** questions

(2 * 20 = 40 Marks)

16) i) Explain in detail about the Full adder with a neat diagram. (10 Marks)

ii) Explain SR and JK flip-flops . (10 Marks)

17) i) Discuss in detail about the Multiplexer with a neat diagram (10 Marks)

ii) With a neat diagram, explain about the different phases of Instruction cycle.

(10 Marks)

18) Explain in detail about the Addressing modes with an example.
