

## Mid Sem Question Paper

Name of the program:	B.tech	Semester:	III
Course/Subject Name:	Formal Languages and Automata Theory	Course/Subject Code:	CSE11005
Maximum Marks:	50	Time Duration:	3 Hrs
Total No. of Questions:	18	Total No of Pages:	4

### Mid sem question paper

1> A variable on its own or in its complemented form is known as: a) Product Term b) Literal c) Sum Term d) Word

2> Which of the following is not a sequential circuit? 1)Flip-Flop 2)Counter 3)Shift register 4)Multiplexer

3> 3 bits full adder contains a)3 combinational inputs b) 4 combinational inputs c)6 combinational inputs d) 8 combinational inputs

4> The expression for Absorption law is given by: a)  $A + AB = A$  b)  $A + AB = B$  c)  $AB + AA' = A$  d)  $A + B = B + A$

5> A variable on its own or in its complemented form is known as: a) Product Term b) Literal c) Sum Term d) Word

GROUP B

6> Classify the logic families based on its operation

7> Explain the process of converting SOP to SSOP and POS to SPOS.

8> Explain the major properties of Boolean algebra

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