

Self-Assessment

CC-12 (Theory): Theory of Computation

Unit : 2 (Moore & Mealy Machines)

1. Moore Machine is an application of:

- a) Finite automata without input
- b) Finite automata with output
- c) Non Finite automata with output
- d) None of the mentioned

2. In Moore machine, output is produced over the change of:

- a) transitions
- b) states
- c) all of the mentioned
- d) none of the mentioned

3. In mealy machine, the O/P depends upon?

- a) State
- b) Previous State
- c) State and Input
- d) Only Input

4. Mealy and Moore machine can be categorized as:

- a) Inducers
- b) Transducers
- c) Turing Machines
- d) Linearly Bounded Automata

5. Which one of the following is true?

A mealy machine

- a) produces a language
- b) produces a grammar
- c) can be converted to NFA
- d) has less circuit delays

6. Which of the following is a correct statement?

- a) Moore machine has no accepting states
- b) Mealy machine has accepting states
- c) We can convert Mealy to Moore but not vice versa
- d) All of the mentioned

7. The total number of states and transitions required to form a moore machine that will produce residue mod 3.

- a) 3 and 6
- b) 3 and 5
- c) 2 and 4
- d) 2 and 5