

5 Lecture - CS402

Important Mcqs

1. Which of the following is not a notation for representing transitions in a finite automaton?

- a. Directed graphs
- b. Transition tables
- c. Transition functions
- d. None of the above

Answer: d. None of the above

In which notation are the states represented by circles and the transitions by arrows?

- a. Directed graphs
- b. Transition tables
- c. Transition functions
- d. State diagrams

Answer: d. State diagrams

Which notation uses algebraic notations like (q, a) to represent transitions?

- a. Directed graphs
- b. Transition tables
- c. Transition functions
- d. State diagrams

Answer: c. Transition functions

Which notation uses directed edges to represent transitions between states?

- a. Directed graphs
- b. Transition tables
- c. Transition functions
- d. State diagrams

Answer: a. Directed graphs

Which notation is a tabular representation of a finite automaton?

- a. Directed graphs
- b. Transition tables
- c. Transition functions
- d. State diagrams

Answer: b. Transition tables

Which notation can be represented using arrow notations like $q \xrightarrow{a} p$?

- a. Directed graphs
- b. Transition tables
- c. Transition functions
- d. State diagrams

Answer: c. Transition functions

Which notation uses labels on the arrows to represent input symbols?

- a. Directed graphs

- b. Transition tables
- c. Transition functions
- d. State diagrams

Answer: d. State diagrams

Which notation uses mathematical functions to represent transitions?

- a. Directed graphs
- b. Transition tables
- c. Transition functions
- d. State diagrams

Answer: c. Transition functions

Which notation can be used to visualize the overall structure of a finite automaton?

- a. Directed graphs
- b. Transition tables
- c. Transition functions
- d. State diagrams

Answer: a. Directed graphs

Which notation is best suited for representing large finite automata with many states and transitions?

- a. Directed graphs
- b. Transition tables
- c. Transition functions
- d. State diagrams

Answer: b. Transition tables