

Mid Exam For the Second Semester (AI)

- 1. The “Father of Artificial Intelligence” is:**
 - a. Alan Turing
 - b. Charles Babbage
 - c. John McCarthy
 - d. None of the above
- 2. Which of the following is not an application of artificial intelligence?**
 - a. Computer Vision
 - b. Natural Language Processing
 - c. Database Management System
 - d. Digital Assistants
- 3. How many types of quantification are there in AI?**
 - a. 1
 - b. 2
 - c. 3
 - d. 4
- 4. Knowledge in AI can be represented as?**
 - a. Predicate Logic
 - b. Propositional Logic
 - c. Both A and B
 - d. None of the above
- 5. Which of the following are heuristic search algorithms?**
 - a. Best First Search Algorithm
 - b. A* Search Algorithm
 - c. Both A and B
 - d. None of the above
- 6. Inference engines work on the principle of?**
 - a. Backward Chaining
 - b. Forward Chaining
 - c. Both A and B
 - d. None of the above
- 7. Components of an expert system are?**
 - a. Knowledge base
 - b. User interface
 - c. Inference engine
 - d. All of the above

8. Which of the following search method takes less memory space?
- a. Depth First Search
 - b. Breadth-First Search
 - c. Linear Search
 - d. Optimal Search
9. Which of the following statements correctly define knowledge representation in AI?
- a. It is the way in which facts and information are stored in the storage system of the agent
 - b. It is the way in which we feed the knowledge in machine understandable form
 - c. We modify the knowledge and convert it into the format which is acceptable by the machine
 - d. All of the above
10. "All boys are cool." Corresponding FOL is:
- a. $\forall x: \text{boy}(x) \rightarrow \text{cool}(x)$
 - b. $\forall x: \text{boy}(x) \wedge \text{cool}(x)$
 - c. $\forall x: \text{boy}(x) \rightarrow (\text{cool}, x)$
 - d. $\forall x: \text{boy}(x) \leftrightarrow \text{cool}(x)$