

**Sub- AI**

**Time 30 minutes**

Q1. How many ways AI agent perceive the environment?

- ☒ A. 3
- B. 2
- C. 4
- D. 5

Q2. How many major components in an AI agent's architecture belong?

- ☒ A. 4
- B. 3
- C. 2
- D. 5

Q3. Which agent responds to immediate stimuli in their environment, making decisions based on current conditions without planning ahead ?

- ☒ A. Reactive Agents
- B. Proactive Agents
- C. Single-Agent Systems
- D. Multi-Agent Systems

Q4. Which agents choose actions based on the goal of achieving the best possible outcome, considering both past and present information?

- ☒ A. Rational agent
- B. Single-Agent Systems
- C. Multi-Agent Systems
- D. None

Q5. Which agent takes initiative, planning actions to achieve long-term goals by anticipating future conditions?

- ☒ A. Proactive Agents
- B. Single-Agent Systems
- C. Rational agent
- D. None

Q6. A self-driving car is an example of which agent.

- ☒ A. Model-Based Reflex Agents
- B. Simple Reflex Agents
- C. Goal-Based Agents
- D. Utility-Based Agents

Q7. How many types of AI (Based on Capabilities) are available?

- ☒ A. 2

B. 3

C. 4

D. 5

Q8. How many types of AI (Based on Functionalities) are available?

☒ A. 4

B. 3

C. 2

D. 5

Q9. How many layers are involve in deep learning algorithms?

☒ A. 3

B. 4

C. 2

D. 5

Q10. Which data structure is used in BFS?

☒ A. Queue

B. Stack

C. Priority Queue

D. DEQ

Q11. Which data structure is used in DFS?

☒ A. Stack

B. Queue

C. Priority Queue

D. DEQ

Q12. Which data structure is used in UCS?

☒ A. Priority Queue

B. Stack

C. Queue

D. DEQ

Q13. How many Types of search algorithms are available in AI?

☒ A. 2

B. 3

C. 4

D. Only one

Q14. Which AI algorithm among given below is used to find shortest path?

☒ A. UCS

B. BFS

C. DFS

D. Binary search

Q15. Among given below, which algorithms are the example of informed search algorithm.

✓ A. Greedy Search, A\* search

B. BFS, DFS

C. UCS, BFS

D. UCS, DFS