1. The inference engine works on _____.

a. Forward Chaining and backward chaining

- b. Backward Chaining
- c. Total task chaining
- d. Forward Chaining
 - 2. Which environment is called as semi dynamic?
 - a) Environment does not change with the passage of time
 - b) Agent performance changes
 - c) Environment will be changed
 - d) Environment does not change with the passage of time, but Agent performance changes
 - 3. Which is used to provide the feedback to the learning element?
 - a) Critic
 - b) Actuators
 - c) Sensor
 - d) None of the mentioned
 - 4. What is the other name of the backward state-space search?
 - a) Regression planning
 - b) Progression planning
 - c) State planning
 - d) Test planning
 - 5. What is meant by consistent in state-space search?
 - a) Change in the desired literals
 - b) Not any change in the literals
 - c) No change in goal state
 - d) None of the mentioned
 - 6. What is the problem space of means-end analysis?
 - a) An initial state and one or more goal states
 - b) One or more initial states and one goal state
 - c) One or more initial states and one or more goal state
 - d) One initial state and one goal state
 - 7. What is state space?
 - a) The whole problem
 - b) Your Definition to a problem

c) Problem you design d) Representing your problem with variable and parameter 8. A problem solving approach works well for _____ a) 8-Puzzle problem b) 8-queen problem c) Finding a optimal path from a given source to a destination d) Mars Hover (Robot Navigation) 9. A production rule consists of a) A set of Rule b) A sequence of steps c) Set of Rule & sequence of steps d) Arbitrary representation to problem 10. _____ are mathematical problems defined as a set of objects whose state must satisfy a number of constraints or limitations. a) Constraints Satisfaction Problems b) Uninformed Search Problems c) Local Search Problems d) All of the mentioned 11. Table driven agents with an example:

Size of table, Time required for learning, Autonomy (2.5 m)

Simplex reflex agent with an example. (2.5 m)

12. Three simple rules:

Only one disk can be moved at a time.

Each move consists of taking the upper disk from one of the stacks and placing it on top of another stack. In other words, a disk can only be moved if it is the uppermost disk on a stack.

No larger disk may be placed on top of a smaller disk.



2. 3. 4. 5.	Move the first disk from A to C Move the first disk from A to B Move the first disk from C to B Move the first disk from A to C Move the first disk from B to A Move the first disk from B to C	
	Move the first disk from A to C (3 m)	
	13. Any five real-life applications of Artificial Intelligence.	(5 m)
	14. Methods of Problem solving:	
	General Purpose	
	Special Purpose	(2 m)
	Problem characteristics:	
	a. Deterministicb. Non-observablec. Non-Deterministicd. Unknown state space	(3 m)
	15. A=4, B=7, S=8, E=3, L=5, G=1,and M=9	
	BASE +BALL GAMES 7483 +7455	information
	14938 	