

1. Artificial intelligence is about ----
 - a) Putting your intelligence into Computer
 - b) Programming with your own intelligence
 - c) **Making a Machine intelligent**
 - d) Playing a Game
2. ----- technique is used for determining whether a computer is intelligent or not
 - a) **Turing Test**
 - b) A* algorithm
 - c) Hill climbing
 - d) heuristic
3. A computer program that contains expertise in a particular domain is called?
4. A* Search b) heuristic program c) **Expert system** d) None
5. Which of the following is a component of an expert system?
 - a) Inference engine
 - b) knowledge base
 - c) User interface
 - d) **all of the mentioned**
6. Intelligence requires knowledge, which of the following are properties of Knowledge
 - a) It is huge.
 - b) It is difficult to characterize correctly.
 - c) It is constantly varying.
 - d) **All of the above**
7. In which of the problem, solution steps are ignored :
 - a) Playing chess
 - b) Playing Cards
 - c) 8-puzzle problem
 - d) **Theorem proving**
8. In which of the problem, solution steps are Recovered :
 - a) Playing chess
 - b) Playing Cards
 - c) **8-puzzle problem**
 - d) Theorem proving
9. In which of the problem, solution steps are Not Recovered :
 - a) **Playing chess**
 - b) water jug problem
 - c) 8-puzzle problem
 - d) Theorem proving
10. ----- is a variation of generate and test in which the test function is augmented with heuristic function.
 - a) Means ends analysis
 - b) Constraint satisfaction
 - c) A * algorithm
 - d) **Hill climbing**
11. Which search strategy is also called as blind search?
 - a) **Uninformed search**
 - b) Informed search
 - c) Simple reflex search
 - d) All of the mentioned
11. Which is true regarding BFS (Breadth First Search)?
 - a) BFS will get trapped exploring a single path
 - b) **The entire tree so far been generated must be stored in BFS**
 - c) BFS is not guaranteed to find a solution if exists
 - d) BFS is nothing but Binary First Search
12. Which is true regarding DFS (Depth First Search)?
 - a) **DFS will get trapped exploring a single path**
 - b) The entire tree so far been generated must be stored in DFS
 - c) DFS is guaranteed to find a solution if exists in very less time
 - d) All are false
13. In TSP, the sales person has given 'n' cities to visit, how many different possibilities are there for his tour according to combinatorial explosion algorithm
 - a) only one path
 - b) n paths
 - c) n² paths
 - d) **n! Paths**
14. In TSP, the sales person has given 'n' cities to visit, how many different possibilities are there for his tour according to Nearest neighbor algorithm
 - a) **Only one path**
 - b) n paths
 - c) n² paths
 - d) n! Paths
15. Which of the following algorithm prefers the nodes that are close to the goal instead of the nodes that are moving away from the goal state:
 - a) Blind search
 - b) BFS
 - c) DFS
 - d) **Heuristic search**
16. The predicate logic representation of the sentence is called

- a) **WFF** b) Prenix normal form c) BNF d) clause

17. The well formed formula in conjunctive normal form is called -----

- a) WFF b) Prenix normal form c) BNF d) **clause**

18. The sentence: Ravi and Ajay are brothers can be represented in logic as : -----

19. The sentence: All men like coffee. can be represented in logic as : -----

20. The sentence: Some boys are intelligent. can be represented in logic as : -----

21. Artificial Intelligence is about_____.

- a. Playing a game on Computer
 a. Making a machine Intelligent
 b. Programming on Machine with your Own Intelligence
 c. Putting your intelligence in Machine

22. What is Artificial Intelligence?

- a) Artificial Intelligence is a field that aims to make humans more intelligent
b) Artificial Intelligence is a field that aims to improve the security
c) **Artificial Intelligence is a field that aims to develop intelligent machines**
d) Artificial Intelligence is a field that aims to mine the data

23. Who is the inventor of Artificial Intelligence?

- a) Geoffrey Hinton
b) Andrew Ng
c) **John McCarthy**
d) Jürgen Schmidhuber

24. Which of the following is the branch of Artificial Intelligence?

- a) **Machine Learning**
b) Cyber forensics
c) Full-Stack Developer
d) Network Design

25. What is the goal of Artificial Intelligence?

- a) To solve artificial problems
b) To extract scientific causes
c) **To explain various sorts of intelligence**
d) To solve real-world problems

26. Which of the following is an application of Artificial Intelligence?

- a) It helps to exploit vulnerabilities to secure the firm
b) **Language understanding and problem-solving (Text analytics and NLP)**
c) Easy to create a website
d) It helps to deploy applications on the cloud

27. In how many categories process of Artificial Intelligence is categorized?

- a) categorized into 5 categories
b) processes are categorized based on the input provided
c) **categorized into 3 categories**
d) process is not categorized

Explanation: It is categorized into 3 steps Sensing, Reasoning, Acting

i) Sensing: Through the sensor taking in the data about the world

ii) Reasoning: Reasoning is thinking or processing the data sensed by the sensor.

iii) Action: On the basis of input and reasoning, acting is generating and controlling actions

in the environment.

28. Which of the following is a component of Artificial Intelligence?
- a) **Learning**
 - b) Training
 - c) Designing
 - d) Puzzling
29. Which of the following are the approaches to Artificial Intelligence?
- a) Applied approach
 - b) Strong approach
 - c) Weak approach
 - d) **All of the mentioned**
30. Which of the following is an advantage of artificial intelligence?
- a) Reduces the time taken to solve the problem
 - b) Helps in providing security
 - c) Have the ability to think hence makes the work easier
 - d) **All of the above**
31. Face Recognition system is based on which type of approach?
- a) Weak AI approach
 - b) **Applied AI approach**
 - c) Cognitive AI approach
 - d) Strong AI approach
32. Which of the following is an expansion of Artificial Intelligence application?
- a) Game Playing
 - b) Planning and Scheduling
 - c) Diagnosis
 - d) **All of the mentioned**