Online Assessment (Even Sem/Part-I/Part-II Examinations 2019 - 2020

Course Name - Artificial Intelligence
Course Code - MCS204

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◯ M.SC.(CS)

⬭ M.SC.(..)

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◯ M.A.(ENG)

◯ M.SC.(MATH)

◯ M.SC.(MB)

Answer all the questions. Each question carry one mark.

9.   1. What is Artificial intelligence?

Mark only one oval.

◯ Putting your intelligence into Computer

◯ Programming with your own intelligence

◯ Making a Machine intelligent

◯ Playing a Game

10.   2. Which is not the commonly used programming language for AI?

Mark only one oval.

◯ PROLOG

◯ Java

◯ LISP

◯ Perl

11.   3. A production rule consists of

Mark only one oval.

     ◯ A set of Rule

     ◯ A sequence of steps

     ◯ A set of Rule & a sequence of steps

     ◯ Arbitrary representation to problem

12.   4. A heuristic is a way of trying

Mark only one oval.

     ◯ To discover something or an idea embedded in a program

     ◯ To search and measure how far a node in a search tree seems to be from a goal

     ◯ To compare two nodes in a search tree to see if one is better than the other

     ◯ To discover something or an idea embedded in a program & to search and measure how far a node in a search tree seems to be from a goal and to compare two nodes in a search tree to see if one is better than the other

13.   5. A* algorithm is based on

Mark only one oval.

     ◯ Breadth-First-Search

     ◯ Depth-First –Search

     ◯ Best-First-Search

     ◯ Hill climbing

14.   6. Which is not Familiar Connectives in First Order Logic?

Mark only one oval.

⬭ and

⬭ iff

⬭ or

⬭ not

15.   7. Which is not a type of First Order Logic (FOL) Sentence?

Mark only one oval.

⬭ Atomic sentence

⬭ Complex sentences

⬭ Quantified sentence

⬭ Quality Sentence

16.   8. A constructive approach in which no commitment is made unless it is necessary to do so, is

Mark only one oval.

⬭ Least commitment approach

⬭ Most commitment approach

⬭ Nonlinear planning

⬭ Opportunistic planning

17.　9. Uncertainty arises in the wumpus world because the agent's sensors give only

Mark only one oval.

◯ Full & Global information

◯ Partial & Global Information

◯ Partial & local Information

◯ Full & local information

18.　10. How is Fuzzy Logic different from conventional control methods?

Mark only one oval.

◯ IF and THEN Approach

◯ FOR Approach

◯ WHILE Approach

◯ DO Approach

19.　11. Inductive learning involves finding a

Mark only one oval.

◯ Consistent Hypothesis

◯ Inconsistent Hypothesis

◯ Regular Hypothesis

◯ Irregular Hypothesis

20.   12. Computational learning theory analyzes the sample complexity and computational complexity of

Mark only one oval.

⬭ Unsupervised Learning

⬭ Inductive learning

⬭ Forced based learning

⬭ Knowledge based learning

21.   13. Neural Networks are complex ----------------------with many parameters.

Mark only one oval.

⬭ Linear Functions

⬭ Nonlinear Functions

⬭ Discrete Functions

⬭ Exponential Functions

22.   14. Which is true?

Mark only one oval.

⬭ Not all formal languages are context-free

⬭ All formal languages are Context-free

⬭ All formal languages are like natural language

⬭ Natural languages are context-oriented free

23.   15. What is a Cybernetics?

Mark only one oval.

○ Study of communication between two machines

○ Study of communication between human and machine

○ Study of communication between two humans

○ Study of communication between logic circuits.

24.   16. Which is true regarding BFS?

Mark only one oval.

○ BFS will get trapped exploring a single path

○ The entire tree so far been generated must be stored in BFS

○ BFS is not guaranteed to find a solution if exists

○ BFS is nothing but Binary First Search

25.   17. The traveling salesman problem involves n cities with paths connecting the
cities. The time taken for traversing through all the cities, without knowing in
advance the length of a minimum tour, is

Mark only one oval.

○ O(n)

○ O(n^2)

○ O(n!)

○ O(n/2)

26.   18. An algorithm A is admissible if

Mark only one oval.

○ It is not guaranteed to return an optimal solution when one exists

○ It is guaranteed to return an optimal solution when one exists

○ It returns more solutions, but not an optimal one

○ It guarantees to return more optimal solutions

27.   19. Knowledge may be I. Declarative. II. Procedural. II. Non-procedural.

Mark only one oval.

○ Only (I)

○ Only (II)

○ Both (I) and (II)

○ Only (III)

28.   20. Consider a good system for the representation of knowledge in a particular domain. What property should it possess?

Mark only one oval.

○ Representational Adequacy

○ Inferential Adequacy

○ Inferential Efficiency

○ All of these

29.   21. In default logic, we allow inference rules of the form

Mark only one oval.

◯ (A : B) / C

◯ A / (B : C)

◯ A / B

◯ (A: B) :C

30.   22. Default reasoning is another type of

Mark only one oval.

◯ Monotonic reasoning

◯ Analogical reasoning

◯ Bitonic reasoning

◯ Closed world assumption.

31.   23. How many types of agents are there in artificial intelligence?

Mark only one oval.

◯ 1

◯ 2

◯ 3

◯ 4

32.   24. What are the compositions for agents in artificial intelligence?

Mark only one oval.

    ◯ Program

    ◯ Architecture

    ◯ Both Program & Architecture

    ◯ None of the mentioned

33.   25. Which agent deals with happy and unhappy states?

Mark only one oval.

    ◯ Model based agent

    ◯ Simple reflex agent

    ◯ Learning agent

    ◯ Utility based agent

34.   26. Which element in the agent is used for selecting external actions?

Mark only one oval.

    ◯ Perceive

    ◯ Performance

    ◯ Learning

    ◯ Actuator

35.   27. The following could be the approaches to Artificial Intelligence

Mark only one oval.

   ⬭ Strong Artificial Intelligence

   ⬭ Weak Artificial Intelligence

   ⬭ Applied Artificial Intelligence

   ⬭ All of the mentioned

36.   28. An Artificial Neural Network is based on

Mark only one oval.

   ⬭ Strong Artificial Intelligence approach

   ⬭ Weak Artificial Intelligence approach

   ⬭ Cognitive Artificial Intelligence approach

   ⬭ Applied Artificial Intelligence approach

37.   29. The Face Recognition system is based on

Mark only one oval.

   ⬭ Strong Artificial Intelligence approach

   ⬭ Weak Artificial Intelligence approach

   ⬭ Cognitive Artificial Intelligence approach

   ⬭ Applied Artificial Intelligence approach

38.   30. A basic line following robot is based on

Mark only one oval.

( ) Strong Artificial Intelligence approach

( ) Weak Artificial Intelligence approach

( ) Cognitive Artificial Intelligence approach

( ) Applied Artificial Intelligence approach

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