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

Course Name - −Computational Intelligence
Course Code - PCC-MCS 202

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⬡ M.SC.(…)

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Answer all the questions. Each question carry one mark.

9. 1.Neuron can send _____ signal at a time

    Mark only one oval.

    ◯ 1

    ◯ 2

    ◯ 3

    ◯ None of these

10. 2.In a Fuzzy set a prototypical element has a value

    Mark only one oval.

    ◯ 1

    ◯ 0

    ◯ Infinite

    ◯ Finite

11.   3. A 4-input neuron has weights 1, 2, 3 and 4. The transfer function is linear with the constant of proportionality being equal to 2. The inputs are 4, 10, 5 and 20 respectively. The output will be:

Mark only one oval.

⬭ 238

⬭ 76

⬭ 119

⬭ All of these

12.   4. Widrow & Hoff learning law is special case of?

Mark only one oval.

⬭ hebb learning law

⬭ perceptron learning law

⬭ delta learning law

⬭ none of these

13.   5. Ranking is a technique used for

Mark only one oval.

⬭ Deleting undesirable members of the population.

⬭ Obtaining the selection probabilities for reproduction.

⬭ Copying the fittest member of each population into the mating pool.

⬭ Preventing too many similar individuals from surviving to the next generation.

14.   6. What's the other name of Widrow & Hoff learning law?

Mark only one oval.

◯ Hebb

◯ LMS

◯ MMS

◯ None of these

15.   7. In hebbian learning initial weights are set?

Mark only one oval.

◯ Random

◯ Near to zero

◯ Near to target value

◯ None of these

16.   8. DEC advertises that it helped to create " the world first expert system routinely used in an industrial environment" called XCON or

Mark only one oval.

◯ PDP-11

◯ RI

◯ VAX

◯ MAGNOM

17.   9.What is the nature of weights in plain hebbian learning?

Mark only one oval.

○ convergent

○ divergent

○ may be convergent or divergent

○ none of these

18.   10. Which of the following is being investigated as a means of automating the creation of a knowledge base?

Mark only one oval.

○ automatic knowledge acquisition

○ simpler tools

○ discovery of new concepts

○ all of these

19.   11. The component of an ICAI (Intelligent Computer-Asslsted Instruction) presenting information to the student is the:

Mark only one oval.

○ student model

○ problem-solving expertise

○ tutoring module

○ all of these

20.   12. The Blocks World Problem in Artificial Intelligence is normally discussed to
       explain a _____

       Mark only one oval.

       ◯ Search technique

       ◯ Planning system

       ◯ Constraint satisfaction system

       ◯ Knowledge base system

21.   13.Activation dynamics is referred as?

       Mark only one oval.

       ◯ short term memory

       ◯ long term memory

       ◯ either short or long term

       ◯ both short & long term

22.   14. The original LISP machines produced by both LMI and Symbolics were based on
       research performed at

       Mark only one oval.

       ◯ CMU

       ◯ MIT

       ◯ Stanford University

       ◯ RAMD

23. 15. An intelligent robot

Mark only one oval.

◯ Respond to changes in its environment

◯ Follows instruction

◯ Possesses no more intelligent than a dishwasher

◯ All of these

24. 16. Which of the following statements is the best description of reproduction?

Mark only one oval.

◯ Randomly change a small part of some strings.

◯ Randomly generate small initial values for the weights.

◯ Randomly pick new strings to make the next generation.

◯ Randomly combine the genetic information from 2 strings.

25. 17. Texas Instruments Incorporated produces a low-cost LISP machine called:

Mark only one oval.

◯ The Computer-Based Consultant

◯ The Explorer

◯ Smalltalk

◯ None of these

26. 18. The field that investigates the mechanics of human intelligence is

Mark only one oval.

- ( ) History
- ( ) Cognitive science
- ( ) psychology
- ( ) sociology

27. 19. For speech understanding systems to gain widespread acceptance in office automation, they must feature

Mark only one oval.

- ( ) speaker independence
- ( ) speaker dependence
- ( ) isolated word recognition
- ( ) all of these

28. 20. In Fuzzy set the membership function generally in ranges

Mark only one oval.

- ( ) 0-100
- ( ) 100-1000
- ( ) 1-100
- ( ) 0-1

29.   21. Which of the following neural networks uses supervised learning?

Mark only one oval.

    ⬭ Simple recurrent network

    ⬭ Self-organizing feature map

    ⬭ Hopfield network.

    ⬭ All of these

30.   22.The intelligent agents sense through_____ and take actions through_____

Mark only one oval.

    ⬭ sensors, actuators

    ⬭ remote, signals

    ⬭ both a of above

    ⬭ none of these

31.   23.When both inputs are 1, what will be the output of the pitts model NAND gate?

Mark only one oval.

    ⬭ 0

    ⬭ 1

    ⬭ either 0 or 1

    ⬭ none of these

32.   24. Elementary linguistic units which are smaller than words are

Mark only one oval.

○ Allophones

○ Phonemes

○ syllables

○ all of these

33.   25.A Hybrid Bayesian network contains

Mark only one oval.

○ Both discrete and continuous variables

○ Only Discontinuous variables

○ Both discrete and discontinuous variables

○ Continuous variables only.

34.   26.What stage of manufacturing process has been described as "the mapping of function onto form"?

Mark only one oval.

○ distribution

○ project management

○ design

○ field service

35. 27. The characteristics of the computer system capable of thinking, reasoning and learning is known is

Mark only one oval.

- ⬭ machine intelligence
- ⬭ human intelligence
- ⬭ artificial intelligence
- ⬭ virtual intelligence

36. 28. LISP was created by:

Mark only one oval.

- ⬭ John McCarthy
- ⬭ Marvin Minsky
- ⬭ Alan Turing
- ⬭ Allen Newell and Herbert Simon

37. 29. Which approach to speech recognition avoids the problem caused by the differences in the way words are pronounced according to context?

Mark only one oval.

- ⬭ continuous speech recognition
- ⬭ connected word recognition
- ⬭ solated word recognition
- ⬭ speaker-dependent recognition

38. 30.The values of the set membership is represented by _____

Mark only one oval.

◯ Discrete Set

◯ Degree of truth

◯ Probabilities

◯ Both Degree of truth & Probabilities

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