Program: BE Computer Engineering

Curriculum Scheme: **Revised 2016**

Examination: **Final Year Semester VII**

Course Code: **CSC703** and Course Name: **AISC**

Time: 1-hour Max. Marks: 50

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Note to the students: - All the Questions are compulsory and carry equal marks.

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| Q1. | The term Artificial Intelligence is introduced by \_\_\_\_\_\_\_\_\_\_\_\_\_, in \_\_\_\_\_\_? |
| Option A: | Alan Turing,1952 |
| Option B: | John McCarthy,1956 |
| Option C: | Alan Turing,1956 |
| Option D: | John McCarthy,1952 |
|  |  |
| Q2. | Find an incorrect option from the following? |
| Option A: | Thinking Humanly : Apple siri |
| Option B: | Thinking Rationally : Google assistant |
| Option C: | Acting Rationally : self driving car |
| Option D: | Acting Humanly : Dancing robot |
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| Q3. | If an environment remains unchanged while the agent is performing given task then it is called as a \_\_\_\_\_\_\_\_environment |
| Option A: | Static |
| Option B: | Dynamic |
| Option C: | Deterministic |
| Option D: | Discrete |
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| Q4. | which of the following is not a type of an agent? |
| Option A: | Single reflex agent |
| Option B: | Model-based reflex agent |
| Option C: | Goal-based agent |
| Option D: | Utility-based agent |
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| Q5. | DFS is \_\_\_\_\_\_ efficient and BFS is \_\_\_\_\_\_\_\_\_\_ efficient. |
| Option A: | Space, Time |
| Option B: | Time, Space |
| Option C: | Time, Time |
| Option D: | Space, Space |
|  |  |
| Q6. | Which instruments are used for perceiving and acting upon the environment? |
| Option A: | Sensors and Actuators |
| Option B: | Sensors |
| Option C: | Perceiver |
| Option D: | Actuators |
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| Q7. | Which closely resembles propositional definite clause? |
| Option A: | Resolution |
| Option B: | Inference |
| Option C: | Conjunction |
| Option D: | First-order definite clauses |
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| Q8. | In many problems the path to goal is irrelevant, this class of problems can be solved using \_\_\_\_\_\_\_\_\_\_\_\_ |
| Option A: | Informed Search Techniques |
| Option B: | Uninformed Search Techniques |
| Option C: | Local Search Techniques |
| Option D: | Informed & Uninformed Search Techniques |
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| Q9. | Which algorithm will work backward from the goal to solve a problem? |
| Option A: | Forward chaining |
| Option B: | Backward chaining |
| Option C: | Hill-climb algorithm |
| Option D: | A\* algorithm |
|  |  |
| Q10. | What are the main cons of hill-climbing search? |
| Option A: | Terminates at local optimum & Does not find optimum solution |
| Option B: | Terminates at global optimum & Does not find optimum solution |
| Option C: | Does not find optimum solution & Fail to find a solution |
| Option D: | Fail to find a solution |
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| Q11. | Which problem can frequently occur in backward chaining algorithm? |
| Option A: | Repeated states |
| Option B: | Completeness |
| Option C: | Complexity |
| Option D: | Redundant |
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| Q12. | which among the following is popular inference system |
| Option A: | mamdani Inference system |
| Option B: | russell Inference system |
| Option C: | crisp inference sytem |
| Option D: | zadeh inference system |
|  |  |
| Q13. | How many logical connectives are there in artificial intelligence? |
| Option A: | 2 |
| Option B: | 3 |
| Option C: | 4 |
| Option D: | 5 |
|  |  |
| Q14. | Who is the founder of fuzzy logic? |
| Option A: | Mc culloh pits |
| Option B: | Zader Lotfi |
| Option C: | Venula zh |
| Option D: | Mark Zukerburg |
|  |  |
| Q15. | Manoj is younger than Raju such type of relationship can be best justified by |
| Option A: | Fuzzy set |
| Option B: | Neuron |
| Option C: | Neural Network |
| Option D: | Expert system |
|  |  |
| Q16. | What was the name of the first model which can perform weighted sum of inputs? |
| Option A: | McCulloch-pitts neuron model |
| Option B: | Marvin Minsky neuron model |
| Option C: | Hopfield model of neuron |
| Option D: | Perceptron |
|  |  |
| Q17. | which of following is uses linguistic variables which are the words or sentences in a natural language? |
| Option A: | Crisp logic |
| Option B: | Fuzzy logic |
| Option C: | Linear Algebra |
| Option D: | Logic set |
|  |  |
| Q18. | What is true regarding backpropagation rule? |
| Option A: | it is a feedback neural network |
| Option B: | actual output is determined by computing the outputs of units for each hidden layer |
| Option C: | hidden layers output is not all important, they are only meant for supporting input and output layers |
| Option D: | it was proposed by Mc-Culloch Pitts |
|  |  |
| Q19. | what is the role of defuzzifier? |
| Option A: | it simulates human decisions |
| Option B: | It stores the knowledge |
| Option C: | to convert the crisp input values |
| Option D: | convert the fuzzy values into crisp values |
|  |  |
| Q20. | What are dendrites? |
| Option A: | fibers of nerves |
| Option B: | nuclear projections |
| Option C: | another name for nucleus |
| Option D: | soma |
|  |  |
| Q21. | Feature of ANN in which ANN creates its own organization or representation of information it receives during learning time is |
| Option A: | Adaptive Learning |
| Option B: | Self-Organization |
| Option C: | What-if analysis |
| Option D: | Supervised Learning |
|  |  |
| Q22. | Neuron can send \_\_\_\_\_\_\_\_ signal(s) at a time. |
| Option A: | Multiple |
| Option B: | Two |
| Option C: | One |
| Option D: | Three |
|  |  |
| Q23. | The inference engine is |
| Option A: | A method of organizing expert system knowledge into chunks. |
| Option B: | A strategy used to search through the rule base in an expert system |
| Option C: | A strategy for searching the rule base in an expert system that begins with information entered by the user |
| Option D: | The programming environment of an expert system |
|  |  |
| Q24. | Which of the following is not a Capabilities of Expert Systems? |
| Option A: | Advising |
| Option B: | Demonstrating |
| Option C: | Explaining |
| Option D: | Expanding |
|  |  |
| Q25. | Input segments of AI programming contain(s)? |
| Option A: | sound |
| Option B: | smell |
| Option C: | touch |
| Option D: | none of the mentioned |