Reg. No. :

Question Paper Code: 56203

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Sixth Semester

Computer Science and Engineering

15UCS603- ARTIFICIAL INTELLIGENCE

(Regulation 2015)

Duration: 1.15 hrs   Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. The process of removing detail from a representation is called   CO1-R

    (a) Representation   (b) Inheritance   (c) Abstraction   (d) Coherence

2. What is the term used for describing the judgmental or commonsense   CO1- R
    part of problem solving?

    (a) Heuristic   (b) Critical   (c) Value based   (d) Analytical

3. First Order Logic is also known as _____   CO2-R

    (a) First Order Predicate Calculus   (b) Quantification Theory

    (c) Lower Order Calculus   (d) All of the mentioned

4. What was originally called the "imitation game" by its creator?   CO2- R

    (a) LISP   (b) The Turing test   (c) Logical theoretic   (d) Cyber metics

5. Which kind of planning consists of successive representations of   CO3-Ana
    different levels of a plan?

    (a) Hierarchical planning   (b) Non-hierarchical planning

    (c) Project planning   (d) None of the above

6. Which data structure is used to give better heuristic estimates?   CO3- R

    (a) Forwards state-space   (b) Backward state-space

    (c) Planning graph algorithm   (d) None of the mentioned

7. Uncertainty arises in the wumpus world because the agent's sensors give only   CO4-Ana

   (a) Full & Global information   (b) Partial & Global Information

   (c) Partial & local Information   (d) Full & local information

8. Which variable cannot be written in entire distribution as a table?   CO4- R

   (a) Discrete   (b) Continuous

   (c) Both Discrete & Continuous   (d) None of the mentioned

9. What is used in determining the nature of the learning problem?   CO5-Ana

   (a) Environment   (b) Feedback

   (c) Problem   (d) All of the mentioned

10. Which is used to choose among multiple consistent hypotheses?   CO5- R

   (a) Razor   (b) Ockham razor   (c) Learning element   (d) None of the mentioned

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PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

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11.	Compare uninformed search strategies in detail.	CO1-Ana	(8)
12.	How facts are represented using prepositional logic? Explain with example.	CO2-U	(8)
13.	Explain Planning with state space search with an example	CO3-Ana	(8)
14.	What is Baye's rule? Explain how Baye's rule can be applied to tackle uncertain knowledge.	CO4-U	(8)
15.	Explain the learning process in a decision tree?	CO5-U	(8)

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