Roll No											

PRESIDENCY UNIVERSITY
BENGALURU

SCHOOL OF INFORMATION SCIENCE
END TERM EXAMINATION - JAN 2023

Semester : Semester III - 2021
Course Code : CSA2020
Course Name : Sem III - CSA2020 - Artificial Intelligence
Program : BCA / B.Sc-Data Science

Date : 11-JAN-2023
Time : 9.30AM - 12.30PM
Max Marks : 100
Weightage : 50%

Instructions:
(i) Read all questions carefully and answer accordingly.
(ii) Question paper consists of 3 parts.
(iii) Scientific and non-programmable calculator are permitted.

PART A

ANSWER ALL THE FOLLOWING QUESTIONS **10 X 2 = 20M**

1. What are the various techniques of knowledge representation in AI? (CO2) [Knowledge]
2. What is reinforcement learning? (CO3) [Knowledge]
3. What is Learning Agent? (CO3) [Knowledge]
4. What is knowledge representation in AI? (CO3) [Knowledge]
5. Which Search technique is the most straight forward approach for planningalgorithm? (CO3) [Knowledge]
6. Write different steps of waterfall model. (CO4) [Knowledge]
7. What does a production rule consist of? (CO4) [Knowledge]
8. What is procedural Paradisim in Expert System? (CO4) [Knowledge]
9. Discuss about Forward and Back ward chaining. (CO4) [Knowledge]
10. Write Advantages of Artificial Neural Networks. (CO4) [Knowledge]

PART B

ANSWER ALL THE FOLLOWING QUESTIONS **5 X 10 = 50M**

11. Explain briefly the first order logic using Knowledge Representation.

(CO2) [Comprehension]

12. Discuss in detail the statistical learning methods. Explain with examples .

(CO3) [Comprehension]

13. Explain in detail partial order planning with suitable diagram.

(CO3) [Comprehension]

14. Explain in detail neural networks with necessary diagram.

(CO4) [Comprehension]

15. What are Expert Systems? Discuss in detail the stages in the development of an Expert System.

(CO4) [Comprehension]

PART C

ANSWER ALL THE FOLLOWING QUESTIONS **2 X 15 = 30M**

16. Difference Between informed and uninformed search strategies. Expalin briefly.

(CO1) [Application]

17. Describe in detail the expert system life cycle with necessary diagram.

(CO4) [Application]

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