SP-59

Total No. of Pages : 2

Seat No.	

S.Y. B.Tech. (CSE) (AIML) (Semester - IV) (CBCS) Examination, December - 2023
FUNDAMENTALS OF AI
Sub. Code : 86168

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Day and Date : Thursday, 28-12-2023 **Total Marks : 70**

Time : 2.30 p.m. to 5.00 p.m.

Instructions :
1) **Question no. 6 is compulsory.**
2) **Solve any four questions from Q.No. 1 to Q.No. 5**
3) **Assume suitable data wherever necessary.**
4) **Figures to the right indicate full marks.**

10545

Q1) a) Classify the concept Artificial Intelligence in detail. **[8]**

b) Explain Minimax Algorithm in detail. **[7]**

Q2) a) Briefly explain rule based expert system. **[8]**

b) Design & Explain Heuristic Function with example. **[7]**

Q3) a) Illustrate fundamental characteristics of expert sytem. **[8]**

b) Describe knowledge Representation and Reasoning. **[7]**

10545

Q4) a) Describe Forward chaining with example. **[8]**

b) Explain proportional and predicate calculus in detail. **[7]**

P.T.O.

Q5) a) Briefly describe Hill climbing algorithm with its demerits. **[8]**

b) What is probability? Describe conditional Probability with Bayesian rule. **[7]**

Q6) Write a short note on: (Any 2) **[10]**

a) Uninformed Search

b) Artificial Agent

c) Specialization

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