

Roll No.

Printed Pages : 2

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BT-7/D12

ARTIFICIAL INTELLIGENCE

Paper-IT-473

Time allowed : 3 hours *[Maximum marks : 100]*

Note : Attempt any five questions. All questions carry equal marks.

1. What is AI ? Explain its history. Also give an introduction of PROLOG. 20
2. Explain the following : 20
 - (i) A Algorithm
 - (ii) Breadth first search algorithm.
3. What is meant by predicate logic in AI ? Explain the concept of constraints propagation. 20
4. Explain the following : 20
 - (i) Dempster Shafer theory
 - (ii) Temporal reasoning.
5. What is Planning ? Explain planning in situational calculus. Also explain Partial order planning algorithm. 20
6. Explain the following : 20
 - (i) Learning by analogy
 - (ii) Explanation based learning.

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7. Explain principles of Natural Language Processing ? Also explain rule based systems architecture. 20
8. Write notes on the following : 20
 - (i) Current trends in intelligent system
 - (ii) Application of AI in Robotics.

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