



DI-1750
M. Sc. (I.T.) (Sem. IX) Examination
March / April - 2016
Artificial Intelligence
(Old & New Course)

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

<p>नीचे दशांशवैल निशानीवाणी विगतो उत्तरवडी पर अवश्य दक्षवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : M. Sc. (I.T.) (SEM. 9)</p> <p>Name of the Subject : ARTIFICIAL INTELLIGENCE (OLD & NEW)</p> <p>Subject Code No. : 1 7 5 0 Section No. (1, 2.....) : Nil</p>	<p>Seat No. : [][][][][][][]</p> <p>Student's Signature</p>
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(2) All questions are compulsory.

1 Explain following terms. (Any SIX) [18]

- 1 Combinatorial explosion
- 2 Business intelligence
- 3 Ontology
- 4 Personalization
- 5 AND-OR graph
- 6 Biometric identification
- 7 Non monotonic production system

2 Answer the following. (Any THREE) [18]

- 1 Write a note on informed search.
- 2 Write a note on intelligent agents.
- 3 What is image processing? Write its applications along with its available libraries.
- 4 Explain Greedy BFS algorithm in detail.

3 Answer the following. (Any THREE) [18]

- 1 Explain propositional logic with suitable example.
- 2 Explain O-A-V triplet and frames and with example as KR scheme in AI.
- 3 Explain working of search engine as an AI application along with algorithm used in it.
- 4 What is a predicate in Prolog? List and explain prolog built-in predicates with example program in Prolog.

4 Answer the following. (Any FOUR)

[16]

- 1 Write a note on expert systems.
 - 2 Explain water jug problem with its solution.
 - 3 Write a note on machine learning along with its applications and its libraries. Explain working of text classification problem as an AI application.
 - 4 How to handle uncertainty in knowledge.
 - 5 Write a note on NLP and its applications.
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