Roll No.

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GSQ/D-22

1175

ARTIFICIAL INTELLIGENCE Paper: BCA-353

Time: Three Hours] [Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

(Compulsory Question)

- Define artificial intelligence. (i) 1.
 - State any two applications of AI. (ii)
 - What is an expert system ? (iii)
 - State any two limitations of expert systems. (iv)
 - What is meant by state space search? (v)
 - What is Heuristic Search? (vi)
 - (vii) What does NLP stand for ?
 - (viii) What does Local Maximum means?

Unit I

State and explain various applications of AI. 2. (a)

What is Robotics & Explain the concept of a robot along

P.T.O.

	(b) What is a Turing test? How is it performed? Explain.
3.	 (a) Comment on "Can a Mechine Think". (b) Define problem representation in Artificial Intelligence. What are the different methods of problem representation in Artificial Intelligence?
	What are the components of Expert Systems? Explain along with various charactertics of an Expert System.16
5.	Discuss Expert System Life-cycle process in detail. 16 Unit III
6.	Explain the following: (a) Breadth First Search (b) Best First.
7.	What is search process in AI ? Explain with different types of search techniques. 16 Unit IV
8. L-11	What is Robotics? Explain the concept of a robot along with its major components. 16
L-1	175

9. What is Natural Language Processing? What is its need? What are the fundamental problems of Natural Language Processing?
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