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GSQ/D-22

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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)

- 1. (i) Define artificial intelligence.
 - (ii) State any two applications of AI.
 - (iii) What is an expert system ? It is an expert system?
 - (iv) State any two limitations of expert systems.
 - (v) What is meant by state space search?
 - (vi) What is Heuristic Search?
 - (vii) What does NLP stand for ?
 - (viii) What does Local Maximum means? 8×2=16

Unit I

2. (a) State and explain various applications of AI. 8

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3.	(a)	Comment on "Can a Mechine Think".	
	(b)	Define problem representation in Artificial	
		Intelligence. What are the different methods of problem	
	Jas. T	representation in Artificial Intelligence? 10	
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		who exists the Unit II being sector formers . The ν	
4.	Wha	t are the components of Expert Systems? Explain	
	along	g with various charactertics of an Expert System.16	
5.	Disci	uss Expert System Life-cycle process in detail. 16	
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		Unit III	
6.	Expl	ain the following:	
	(a)	Breadth First Search	
	(b).	Best First.	
7.	What	t is search process in AI ? Explain with different	
١	.types	s of search techniques. 16	
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		Unit IV	
8.	What	t is Robotics? Explain the concept of a robot along	
	with	its major components. 16	
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What is a Turing test? How is it performed?

(b)

Explain.

9. What is Natural Language Processing? What is its need? What are the fundamental problems of Natural Language Processing?
16

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