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Roll No. .....

Total Pages : 2

## BCA/D-21

# 1204

## ARTIFICIAL INTELLIGENCE Paper-BCA-353

Time : Three Hours]

[Maximum Marks: 80

**Note :** Attempt *five* questions in all. Question number 1 is compulsory. In addition to compulsory question, student will have to attempt *four* more questions selecting *one* question from each unit. All questions carry equal marks.

#### **Compulsory Question**

1.	(a)	Explain Breadth First Search.	(4)		
	(b)	Discuss Components of Expert System.	(4)		
	(c)	Discuss Speech Recognition.	(4)		
(d) What do you mean by Knowledge? Discuss Knowledge					
Pyramid.		(4)			

#### UNIT-I

**2.** Discuss the past, present and future of Artificial Intelligence. (16)

3.	Write notes on the following :					
	(a)	Turing Test and Revised Turing Test.	(8)			
	(b)	Application Areas of AI.	(8)			
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## UNIT-II

- 4. Discuss the steps of developing an Expert system by taking any example. (16)
  - 5. (a) Compare and contrast Rule Based *vs.* Model Based Expert Systems. (8)
    - (b) Discuss the Advantages and Limitations of an Expert System.(8)

### UNIT-III

6. What is search process in AI? Explain with different types of search techniques. (16)

7.	Explain the following :			
	(a)	Best first search.	(8)	
	(b)	AO* Algorithm.	(8)	

## UNIT-IV

- 8. What is Robotics? Discuss various parts of a Robot. How a Robot will be controlled? Explain. (16)
- Discuss the concept of Natural Language Processing. Also discuss the fundamental problems in understanding Natural Language. (16)

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