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MCCA505

M.C.A. + Ph.D./M.C.A., V Semester Examination, November - 2018

Artificial Intelligence and Applications

Choice Based Credit System (CBCS)

Time: 3 Hrs.

Maximum Marks

: 60

Minimum Pass Marks: 24

- lote: 1. From each questions Parts 'A' and 'B' are compulsory and part 'C' has internal choice.
 - 2. All questions carry equal marks, out of which part 'A' and 'B' carries 3 marks and part 'C' carries 6 marks.
 - Q.1(A) What do you mean by AI? Explain problems associated with AI.

03

(B) Describe atoms, strings and lists with suitable examples.

03

(C) What is the utility of AI systems in modern era? What are the important AI techniques?

OR

Discuss formatted and unformatted I/O functions with suitable examples.

06

Q.2(A) How problems can be represented in AI?

03

(B) What do you understand by production systems? What are the advantages of using it?

03

(C) Explain water jug problem with example.

OR

Trace the constraint satisfaction procedure solving the following cryptarithmetic problem-

06

Contd...

Q.3(A)	What do you mean by knowledge representation?		
(B)	Explain predicate and quantifiers with suitable examples.		
(C)	Construct a movie script.		
	OR OR		
	Briefly explain the structure of the frame.	06	
Q.4(A)	A) Define natural language processing? Explain need of NLP.		
(B)	Explain the term transition networks.	03	
(C)	What is game playing and why game playing occupies a pivotal role in Al?		
	OR		
	Explain alpha-beta cut offs with an example.	06	
		6	
Q.5(A)	What do you mean by expert systems?	03	
(B)	Draw architecture of expert systems.	03	
(C)	Explain life cycle of an expert system.		
	OR		
	Write a note on MYCIN.	06	
