

Total No. of Questions : 8] [Total No. of Printed Pages : 4

Paper Code : 21327

F-427

B.C.A. (Sixth Semester) Examination-2021

(New Course)

Paper No. BCA-N-602

ARTIFICIAL INTELLIGENCE

Time : 1½ Hours] [Maximum Marks : 70

Note : Attempt all sections as directed.

Section-A

Note : Attempt any one question. 20 each

1. (a) How the concept of Artificial Intelligence is applied in different domains? Justify with suitable examples.

(1)

P.T.O.

- (b) Differentiate solution guaranteed algorithms from heuristic algorithms with proper case study.

2. (a) What is automated reasoning?

- (b) Explain different types of Parsing-techniques.

3. (a) Elaborate the terms:-

(i) Context free grammar

(ii) Fillmore's grammars

- (b) What are grammar free analyzers?

Section-B

Note : Attempt any one question. 20 each

4. (a) Describe the "natural language processing concept in detail.

- (b) What do you understand by "first or-

21327-F-427

(2)

der predicate logic"? Describe the term quantifiers with its types.

5. (a) Explain the "Horn Clauses" with example.
- (b) How PROLOG is useful in knowledge representation?
6. (a) Explain semantic nets and partitioned nets with example.
- (b) What are expert systems? How these are useful in medical Science?

Section-C

Note : Attempt any one question. 30 each

7. (a) Write in detail the theory behind the "MYCIN". <https://www.mjpruonline.com>
- (b) What is "Meta knowledge"? How it is significant in any expert system.

21327-F-427

(3)

P.T.O.

8. (a) How any pattern recognition system works ? Explain with an example.
- (b) Write short notes on :
- (i) LISP
- (ii) Shanks Conceptual dependency

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