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Total No. of Pages: 02
Total No. of Questions: 07

BCA (Sem.-6th)
ARTIFICIAL INTELLIGENCE
Subject Code: BC-601
Paper ID: [B0223]

Time: 3 Hrs.**Max. Marks: 60****INSTRUCTIONS TO CANDIDATE:**

1. Section-A is compulsory.
2. Section-B Attempt any four questions.

SECTION-A

(10x2=20)

Q. 1. Answer in 2-5 Lines:

- (a) What is State Space Search?
- (b) Describe Characteristics of Production System.
- (c) Define Heuristic Function.
- (d) Difference between Declarative and Procedural Knowledge.
- (e) What is Inference Engine?
- (f) Define Knowledge base system.
- (g) Explain Conceptual Dependency?
- (h) Define the term Clause.
- (i) What is Natural Language Processing?
- (j) What is resolution?

Section-B

(4x10=40)

- Q. 2.** What is AI? What are its elements? Discuss various Application Areas of AI.
- Q. 3.** What is production system? Explain various components of Production System.
- Q. 4.** How the problem can be defined as state space search? Draw state space diagram for water jug problem.
- Q. 5.** Explain various approaches for Knowledge Representation.

- Q. 6.** What is FOPL? Explain the Horn Clause and procedure of clausal conversion with an example.
- Q. 7.** Write note on the following:
- (a)** Syntactic Processing
 - (b)** Pragmatic Processing

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