(U548) Roll No.

S.C.No.—2214403

B.C.A. EXAMINATION, 2024

(Main)

(Fourh Semester)

ARTIFICIAL INTELLIGENCE

22BCA403

Time : 3 *Hours* *Maximum Marks* : 80

Note : Attempt *Five* questions in all. Q. **No. 1** is compulsory. **All** questions **carry equal marks.**

1. Attempt all of the following :

(i) AI and related fields

(ii) Production system

(iii) Knowledge Base *vs.* Data Base

(iv) Predicate logic

(v) Heuristic Function

(vi) Need of NLP

(vii) Inductive Learning

(viii) Syntactic and Semantic processing.

2. What is Artificial Intelligence ? Discuss its various characteristics. Explain the application areas of AI ? **16**

3. Explain Production System with its various components and characteristics ? Discuss the advantages. **16**

4. What is knowledge representation ? What properties should be processed by a knowledge representation system ? **16**

5. Differentiate between : **16**

(i) Procedural knowledge and Declarative knowledge

(ii) Logic and Predicate logic.

6. What is NLP ? Explain the need and fundamental problems of NLP. **16**

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7. Discuss the following :

(i) Syntactic Processing

(ii) Semantic Network

(iii) Inductive learning

(iv) Explanation based learning.

8. What is Expert system ? Explain with its various components and its architecture. 16

9. Write notes on the following : 16

(i) Cognitive behaviors

(ii) Knowledge acquisition.

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