

Roll No.

Total Pages : 3

1964/M

M-50/2051

ARTIFICIAL INTELLIGENCE

Paper–MS-224

Semester–IV

Time allowed : 3 Hours] [Maximum Marks : 70

Note: Candidates are required to attempt two questions from each sections A and B carrying 10½ marks each. Section C consisting of 7 short answer type questions carrying 4 marks each.

SECTION-A

1. What is Artificial intelligence? Discuss the application area of Artificial Intelligence. 10½
2. How do you differentiate information from knowledge? Explain various types of knowledge and how knowledge can be acquired. 10½

1964/M/940/W

[P.T.O.

3. What is knowledge acquisition? Explain various methods to acquire knowledge. 10½
4. Discuss General Learning Model? Explain various factors affecting learning. 10½

SECTION-B

5. What do you mean by uncertainty? Discuss logic for non-monotonic reasoning. 10½
6. What is an expert system? Explain various integral components of an expert system. 10½
7. What is PROLOG? Explain data structure along with input and output statements. 10½
8. What is Natural Language Processing? Explain syntactic and semantic processing in detail. 10½

SECTION-C

9. Write short notes on the following :
 - (i) Explain Nilsson's Onion Model.
 - (ii) What is ES-Shell?
 - (iii) Define Learning.

1964/M/940/W

2

- (iv) What is List manipulation in PROLOG?
- (v) What is Alpha-Beta Cutf's planning?
- (vi) What is morphological analysis?
- (vii) What is Parsing?

$$7 \times 4 = 28$$