

Roll No.

Total Pages : 03

GSQ/D-24
ARTIFICIAL INTELLIGENCE
BCA-353

1070

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1. Explain the following terms in brief : **2×8=16**
- (a) What is the need of Mobile Robots ?
 - (b) Define Turing Test.
 - (c) Define Searching in AI.
 - (d) What do you mean by knowledge ?
 - (e) What are various components of Expert System ?
 - (f) What are various parts of a Robot ?
 - (g) Define Artificial Intelligence.
 - (h) Define Knowledge.

Unit I

- (a) What can Computer do better than people ? **8**
- (b) What is the aim of Artificial Intelligence. **8**

3. Explain various application areas of AI. Explain revision Turing test.

Unit II

4. Define Expert System. Describe various components and features of Expert System.
5. Explain Mycin and Dendral expert system in brief.

Unit III

6. (a) Explain Breadth First Search by using example.
- (b) What do you mean by Heuristic function ?
7. Write short notes on the following :
- (a) Best First Search
- (b) Beam Search.

Unit IV

8. (a) Explain various components of NLP.
- (b) Explain various applications of Speech Recognition.

9. (a) What is a Robot ? What are the essential characteristics of a Robot ? 8
- (b) What are Goals of NLP ? 8

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