

M.Sc. - II (Computer Science) (NEP Pattern) - Semester-III
03MSCCS02 - Paper-II : Artificial Intelligence and Robotics

P. Pages : 2

Time : Three Hours



GUG/W/24/15968

Max. Marks : 80

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- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram and use supporting data wherever necessary.
 3. Avoid vague answers and write specific answers related to question.

Either:

1. a) What is Pattern Recognition? Explain in detail. 8
- b) Write a detail note on control strategies in AI. 8

OR

- c) Define AI. Explain various AI techniques in detail. 8
- d) Explain the level of model in AI in detail. 8

Either:

2. a) Explain means and analysis in detail. 8
- b) What is problem solving? Explain problem solving methods. 8

OR

- c) Write a detail note on best-First Search. 8
- d) What is Problem Reduction? Explain. 8

Either:

3. a) What is syntactic and symantic Analysis in detail. 8
- b) Write a detail note on Declarative representation. 8

OR

- c) What is pattern recognition? Explain. 8
- d) Explain how to find Right structure. 8

Either:

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|-----------|----|---|----------|
| 4. | a) | Explain precision and accuracy of Robot. | 8 |
| | b) | Describe types of mechanical actuation in detail. | 8 |

OR

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|-----------|----|---|----------|
| | c) | List the applications of Robot Explain any two in detail. | 8 |
| | d) | Explain the basic concept of Robot Give the history of Robot. | 8 |
| 5. | | Solve all the questions. | |
| | a) | Write a short note on production system. | 4 |
| | b) | Explain Hill Climbing in short. | 4 |
| | c) | Write a brief note on Keyword matchings. | 4 |
| | d) | Explain the need of Robot. | 4 |
