SHAHEED BHAGAT SINGH STATE CHNICAL CAME	
- tel number of pages: [5]	
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Malch Onwards. Artificial Intelligence	
Subject Code: BTCS-614A (RG)	
Paper ID:	
Max.Marks:60	
Time allowed: 3 Hrs	
Important Instructions:	
All questions are compulsory	
Assume any missing data	
PART A (10×2marks)	
Q. 1. Short-Answer Questions: (a) List basic steps in problem solving techniques. (b) What is functionality of metadata? (c) What is Depth limited search. (d) Define Greedy Best First Search. (e) What are components of Production System? (f) Explain Artificial Intelligence.? (g) Explain concept of clustering? (h) Which type of data can be mined? (i) What are issues in designing a Search Program?. (j) What is Conflict Resolution Strategy?	
PART B (5×8marks)	
Q. 2. Explain any four problem types in AI?	CO1
OR What is Expert System? Illustrate with an example.	
What is Expert System? Mustrate with an enamps	
Q. 3. Differentiate between hill climbing and best first search techniques. OR	COI
What is meant by Turing test?. Q. 4. In which scenarios of solving programming problems can BFS be applied? OR	
Explain Time/Space complexity of Depth First Search. Q. 5. Differentiate between forward chaining and backward chaining? OR	CO2
Differentiate between Supervised and Unsupervised learning? Q. 6. How field of Natural Language Processing uses AI. What are issues in this field.	CO4
What are Genetic Algorithm. Explain any one problem, which can use GA for its solution.	