GLS UNIVERSITY
Faculty of Computer Applications & Information Technology
Integrated MCA
Semester-V
222301505 ARTIFICIAL INTELLIGENCE
Unit 3 Assignment

Q-1	**Do as directed:**
1.	Define: Informed Search
2.	_____ is a heuristic search used for mathematical optimization problems.
3.	Define following terms: • Local Maxima • Plateau • Ridge
4.	BFS stands for ____.
5.	Which search algorithm
6.	_____search is a well-suited approach in a competitive environment, where two or more agents have conflicting goals.
7.	Define Alpha and Beta.
8.	Uninformed search is also known as _____.
9.	_____ search algorithm runs two simultaneous searches, one form initial state called as forward-search and other from goal node called as backward-search, to find the goal node.
10.	_____ search algorithm sets depth limit.
Q-2	**Write a note:**
1.	Explain Greedy First search with an example.
2.	Explain types of Hill Climbing Algorithm.
3.	Exaplin A* Search algorithm.
4.	Explain Alpha-Beta algorithm.
5.	Explain Min-max algorithm.
6.	Differentiate BFS and DFS.
7.	Differentiate Uninformed and Informed Search.
8.	Explain Bidirectional Search.

Q-1 is compulsary. Q-2 is divided as below:

Roll No	**Questions**
1 to 20	1,5
21 to 40	2,6
41 to 60	3,7
61 to 80	4,8