|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | **Reg. No.:** | | |  |
| **Name:** | |  | |
|  | | | | | | | |
| **CAT-II Class Test – February 2022** | | | | | | | |
| Programme | : | **B. Tech, School of CSE** | Semester | | : | **Winter 21-22 – Session-1** | |
| Course | : | **Artificial Intelligence** | Course | | : | **CSE3007** | |
| Faculty | : | **Dr. Simi V.R.** | Slot/ Class No. | | : | **BL20212210000083/ B11+B12+B13+E11+E12** | |
| Time | : | **30 Min** | Max. Marks | | : | **10** | |
| **Answer all the Questions**   |  |  |  | | --- | --- | --- | | **Q.No.** | **Question Description** | **Marks** | | 1 | Perform Breadth-First Search (BFS) on the graph given below. Find three different solutions. What kind of Data Structure (DS) is used to store the vertices of the graph in the BFS algorithm? How effective is your suggested DS for tracking the solutions in AI Search agents? | 10 | | ⇔⇔⇔ | | | | | | | | | | |