



HITEC UNIVERSITY
Department of Computer Science
BS Cyber Security Program (Batch 2024)

Subject: CS-312 Artificial Intelligence

Instructor: Mr. Mubashir Iqbal

Marks: 40

Last Date of submission: 19 Nov 2025

GENERAL INSTRUCTIONS FOR Quiz-02

- Use Proper Paper: Write on white, lined paper with margin lines on the left.
- Headings & Formatting: Use a black marker for main headings. Use a blue marker for subheadings.
- Write the primary content with a blue or black pen (no other colors).
- Draw every possible shape, diagram, graph, and plot.
- Keep your handwriting clean and readable. Underline important terms neatly. Avoid cutting or overwriting.

Course Outcome	Student Outcome
CO-02	SO-01

Question 01: Explain these uninformed searching algorithms, Breath First Search, Depth First Search, UCS, IDDFS, and Bidirectional Search. Provide at least one real-world situation where each algorithm fails or performs poorly, and justify why. [20 Marks]

Question 02: Use Best First Search to find the optimal path from **P** → **S** on given graph. [10 Marks]

Question 03: Use A* Search to find the optimal path from **P** → **S** on given graph. [10 Marks]

