Bangladesh Army University of Engineering & Technology (BAUET)
Department of Computer Science and Engineering (CSE)
Semester: Fall-2021
Batch: CSE-08
Course Code: CSE-4103
Course Title: Artificial Intelligence
ClassTest-01

Full Marks:20   **Time:20 Minutes**

[*N.B.: Answering all questions are compulsory. Attach class test cover page on the answer script. Figures shown in the right margin indicate full marks.*]

1. Consider the following program: **2+5+5**

    [1] predicates
    [2] run
    [3] clauses
    [4] run: -
    [5]   K = 1,
    [6]   write(K), nl,
    [7]   N=5,
    [8]   write(N), nl,
    [9]   K=N, nl,
    [10]   write(N).
    [11]   write(K).

    Now answer:

    i)   What would be the *Goal* to run the program?
    ii)   Would the program compile successfully? Investigate the above program and
            make necessary corrections if necessary.
    iii)   Identify the output.

2. Translate the following statements into prolog rules: **8**

    M is the mother of X if she is a parent of X and is female
    F is the father of X if he is a parent of X and is male
    X is a sibling of Y if they both have the same parent.