PG (CBCS)
M.SC. Semester- IV Examination, 2022
COMPUTER SCIENCE
PAPER: COS 491
(PRACTICAL: ARTIFICIAL INTELLIGENCE: LAB)

Full Marks: 20

Time: 3 Hours

The figures in the right-hand margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

1. Answer any **ONE** of the following questions: $1 \times 20 = 20$

   a) Write a program to solve 8-queens problem using PROLOG.

   b) Write a program in PROLOG to implement factorial (A, F) where F represents the factorial of a number A.

   c) Write a Prolog program to implement max (A, B, M) so that M is the maximum of two numbers A and B.

   d) Write a Prolog program to implement BFS.

   e) Write a Prolog program to implement 8- puzzle problem using best first search.

   f) Write a Prolog program to calculate GCD of two numbers.

   g) Write a Prolog program to implement DFS.

   h) Write a Prolog program to implement Traveling Salesman problem.

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