# M.Sc. (DDE) 2nd Semester Exam 2019

## Subject: Computer Science

## Paper: MCS-204 (Compiler Design)

## Full Marks: 22.5      Time: 1 Hour

### Answer Question number 1 and any three questions from the rest.

1. Construct predictive parsing table for the following grammar and test whether the following grammar are LL (1) or not?                                                    (7.5)
   S→X
   X→aB/aC/aD/Xc
   B→ bBC/f
   C→ g/ ε
   D→ d/ ε and S is the start symbol.

   **Or**

   Discuss all the phase of a compiler with the reference of the statement          (7.5)
    position:= initial + rate * 60

2. Explain the role of symbol table in all the phases of compiler with example.      (5)

3. Differentiate between Synthesized and Inherited attributes in Syntax Directed Translation.                                                                             (5)

4. Canonical LR is Stronger than Simple LR parser. Critically Comment on the statement.                                                                                (5)

5. What are the drawbacks of Operator Precedence Parser?                              (5)

6. Explain Triple and Indirect Triple with example.                                   (5)