Department of Computer Science & Engineering
University of Asia Pacific (UAP)

Class Test   **Fall 2021**   **4nd Year 2nd Semester**

Course Code: CSE 429   **Course Title: Compiler Design**   **Credits: 3**

Full Marks: 20   **Duration: 30 minutes**

1. Consider the following Context-Free Grammar (CFG):

   EXPR1 → EXPR1 + EXPR2 | EXPR2 | EXPR1= EXPR2
   EXPR2 → (EXPR1) | id
   EXPR3 → id

   a. Find out the LR (0) item sets for the above stated grammar.
   b. Construct two parsing tables for i) LR (0) ii) SLR (1)
   c. State if the parser is LR (0) or SLR (1) with proper reasons?