



**SCHOOL OF COMPUTING SCIENCES AND ENGINEERING**

**CSE2002 -Theory of computation and Compiler Design**

**Digital Assignment**

**Due Date: 19-OCT-2020**

**Max Marks: 10**

- 1. Phase of compiler (3 questions each)**
- 2. Using MOD function with concept explanation for DFA. (7 questions each)**
- 3. Divisible by number (7 questions each)**
- 4. Divisible by binary number (7 questions each)**
- 5. Regular language to Regular grammar vice versa(7 questions each)**
- 6. Regular expression to regular grammar vice versa(7 questions each)**
- 7. Arden's theorem Finite state machines to regular expression.(3 questions each)**
- 8. Context free grammar to context free language vice versa (7 questions each)**
- 9. Ambiguous grammar (7 questions each)**
- 10. Top down parsing. (3 questions each)**
- 11. SLR parsing (3 questions each)**
- 12. CLR parsing (3 questions each)**
- 13. Operator precedence parsing (3 questions each)**
- 14. Pushdown Automata (7 questions each)**



**VIT**  
UNIVERSITY  
(Estd. u/s 3 of UGC Act 1956)

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- \*14 groups will be formed.
- \*Each group will have exactly 5 students.
- \*Group can made by yourself.
- \*If any group not filled with 5 students then I will allocate the student to the group which has less than five.
- \*Among 14 question one assignment question have to choose by a group. Same assignment question will not assigned to the other group.
- \*One assignment question refers to either 7 or 3 questions solved by individual student in a group.
- \*Students who are Copying from your group members or from internet will be awarded zero mark in digital assignment.