End TermAssessment– Nov/Dec 2020
Semester – V
(B.Tech.)

Subject Code: CS 3001/CS 0301 **Subject Name: Compiler Design**
Duration: 2 hours (including time for uploading)
(10 Minutes Max Grace time) **Max. Marks: 50**

Instructions

- **Write name and registration number, page number, on all the pages, convert into one PDF, tag it with your registration number_Name_subjectcode_subject title**

- **The Assessment consists of 2 sections**
  - **Part A contains 10questions of 2marks each and all questions are compulsory.**
  - **Part B consists of 4 questions of 10 marks each, out of which 3 questions to be attempted.**
- **Hand written responses to be submitted/uploaded as scanned pages of answer sheets (max. 5 pages) within the mentioned duration. 6th page and onwards won't be evaluated**

PART – A
2 * 10 =20 Marks (Each answer- Word Limit- 50 Words)

1. What is YACC?
2. Define Symbol Table?
3. What is a DAG?
4. What are the benefit of intermediate code generation?
5. What does a semantic analysis do?
6. Write the algorithm for follow?
7. List the properties of LR Parser.
8. Mention the types of LR Parser
9. Mention the basic issues in parsing?
10. List the various compiler construction tools?

PART – B
10 * 3 = 30 Mark (Each answer- Word limit- 250 words)

11. Describe the various phases of a compiler in detail with neat and clean diagram.
12. Mention any four compiler construction tools with their drawbacks in detail.
13. Write a note on code optimization and code generator.
14. Describe the symbol table in detail and explain various storage allocation strategies?