B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.

Fifth Semester

Computer Science and Engineering

LANGUAGE TRANSLATORS

Time : Three hours   Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define system software.

2. List out the internal data structures used in assemblers.

3. Define bootstrap loader.

4. Write a note on dynamic linking.

5. What is meant by token?

6. Define three address codes.

7. Write about transition diagram.

8. What is meant by ambiguous grammar?

9. What is meant by data flow analysis?

10. Write about code optimization.

PART B — (5 × 11 = 55 marks)

Answer ALL questions, ONE from each Unit.

All questions carry equal marks.

UNIT I

11. (a) Explain about SIC. (11)

Or

(b) Write about multipass assembler. (11)

UNIT II

12. (a) Discuss in detail about absolute loader. (11)

Or

(b) Differentiate linking loader and linkage editor. (11)

UNIT III

13. (a) Explain about finite automata. (11)

Or

(b) Describe in detail about the phases of compiler. (11)

UNIT IV

14. (a) Write about predictive parser. (11)

Or

(b) Describe about LR parser. (11)

UNIT V

15. (a) Write in detail about DAG. (11)

Or

(b) Discuss in detail about peephole optimization. (11)

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