

Seat No. **MAR\_APR 2025 SUMMER EXAMINATION****11731 Bachelor of Technology (NEP-2.0)****Sub. Name: System Programming and Compiler Construction****Sub. Code: 94357****Day and Date: MAY ,21-05-2025****Total Marks: 70****Time: 02:30 PM To 05:00 PM****Instructions:**

- Special Inst.:**
1. Question no. 6 is compulsory
  2. Solve any four questions from Q. No. 1 to Q. No.5
  3. Assume suitable data wherever necessary
  4. Figures to the right indicate full marks

- Q1)** a. Explain the fundamentals of language processing.(8 Marks) **[15]**  
b. Explain the construction compiler tools. (7 Marls)
- Q2)** a. List and explain the elements of a assembly language programming.(8 Marks) **[15]**  
b. Explain Pass I of two pass assembler.(7 Marks)
- Q3)** a. Explain the input buffer and the types of it. (8 Marks) **[15]**  
b. Write an algorithm for operator precedence and explain.(7 Marks)
- Q4)** a. What is the Parser? Explain classification of parser (8 Marks) **[15]**  
b. Discuss in detail processing of declarations and assembler directives. (7 Marks)
- Q5)** a. Write about macro definition and call with syntax and example. (8 Marks) **[15]**  
b. What are the features of LR Parser? Write the LR parsing algorithm.(7 Marks)
- Q6)** Write a short note on:(any 2) **[10]**  
a. Language Processors  
b. Elements of the program environment  
c. Peephole optimization

**End Of Question Paper****Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -**

This Question Paper may be distributed for following Subjects as common code.

सदरची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

1] (1154) B.Tech. CBCS (94357) System Programming and Compiler Construction Part 3 SEM 6