Seat No.

**Total No. of Pages : 2**

# MAR_APR 2026 SUMMER EXAMINATION

## 1154 B.Tech. CBCS

## Sub. Name: System Programming and Compiler Construction

## Sub. Code: 94357

**Day and Date: Saturday ,30-05-2026** **Total Marks: 70**

**Time: 10:30 AM To 01:00 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)** Answer the following questions **[15]**

**a.** Explain Fundamentals of language processing **[8]**

**b.** Write down difference between compiler and interpreter **[7]**

**Q2)** Answer the following questions **[15]**

**a.** Enlist and explain Cousins of compiler **[8]**

**b.** Describe the tasks performed by a lexical analyzer. **[7]**

**Q3)** Answer the following questions **[15]**

**a.** Define a compiler and describe its various phases with appropriate examples **[8]**

**b.** What are the types of assembly language statements? Explain with examples **[7]**

**Q4)** Answer the following questions **[15]**

**a.** Write short notes on **[8]**
1. Input buffering
2. Backpatching

**b.** What is parsing. Explain Types of Parsing in detail **[7]**

**Q5)** Answer the following questions **[15]**

**a.** Define syntax-directed definition in the context of compiler construction **[8]**

**b.** Explain principle sources of optimization with example **[7]**

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**Q6)** Write short note on (Any 2) **[15]**

**a.** Peephole optimization **[5]**

**b.** S-attributed definition and L-attributed definition **[5]**

**c.** Cousins of compiler **[5]**

# 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

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