

1324A = 100.
2011 & 2015 Batch Onward
May 2018

SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS, FEROZEPUR

ROLL No:

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Total number of pages:[1]

B.Tech. || CSE || 4th Sem

System Programming

Subject Code: BTCS405A

Paper ID:

Regular / Reappear

405

Time allowed: 3 Hrs

Max Marks: 60

Important Instructions:

- All questions are compulsory

PART A (10x 2marks)

Q. 1. Short-Answer Questions:

- What is the role of Automata in Lexical Analysis?
- What is a Linker?
- What is a Loader?
- What is the function of a macro processor?
- What is an Assembler Directive?
- What are the advantages of Assembly language over Machine Language?
- What is code optimization?
- What is Relocation? Why it is required?
- What is Debugging?
- Differentiate between a pass and a phase.

PART B (5x8marks)

Q. 2. Explain the working of a Linker.

CO 1

OR

Define System programming. Explain its different components.

CO 1

Q. 3. Explain Pass-I of an Assembler. Draw its flow chart.

CO 2

OR

Explain the working of one pass Assembler. What is Table of Incomplete instructions?

CO 2

Q. 4. Explain LEX and YACC.

CO 3

OR

What is Macro processor? How is it used?

CO 3

Q. 5. What is Parsing? Explain the process of Top Down parsing with example.

CO 4

OR

Explain various Machine-Dependent Code Optimization Techniques

CO 4

Q. 6. What is Compile and Go Loader? Explain its working.

CO 5

OR

Explain various Debugging Techniques used in TURBO C++ Editor

CO 5