TE Sem VI (Gld) comp. SPCC orhabir

Q.P. Code: 1965

(3 Hours)

[Total Marks: 100]

נו.א:	(1) Question No. 1 is compared to	
	(2) Attempt any FOUR questions from remaining questions.	
	(3) Assume suitable data if necessary.	
1.	Solve any Four from the following:	20
	(a) Differentiate between procedure calls and macro calls.	
-	(b) List and explain the phases of compiler.	
	(c) Explain the functions of loader.	
111	(d) What is forward reference problem? How is it handled in two pass assembler?	
	(e) Explain the operator precedence parsing.	
2	(a) Draw the flowchart for one-pass macro processor and explain clatabases used.	10
	(b) Explain the design of dynamic linking loader in detail.	10
3.	(a) Explain different storage allocation strategies.	10
	(b) Explain the various forms of intermediate code used by compiler.	10
4.	(a) Distinguish between top down and bottom up parsing. Explain LALR parser.	10
	(b) Explain the two pass assembler with respect to flowchart and data structures.	10
5.	(a) Explain with suitable example, the concept of syntax directed translation.	10
	(b) What is code optimization? What are various strategies for code optimization?	10
6.	(a) Explain with the help of diagram the concept of activation record.	10
	(b) Explain with example nested macros.	10
7.	Write short notes on (Any Four):	20
	(a) LEX and YACC	
	(b) SPARC assembler	
	(c) JAVA compiler	
	(d) Linkage editor	
	(e) Bootstrap loader	