	Sem-VI (old) comp. Engg	
•	System Prog. & Complier Const. QP Code: 58080	2
	(3 Hours) [Total Mar	
	 N.B.: (1) Question No. 1 Compulsory. (2) Attempt any four questions out of remaining six questions. (3) Figures to the right indicate full marks (4) Assume suitable data if necessary 	
•	 (a) Explain with flow charts working of Two pass assembler, with database used. (b) Explain the working of single pass Microprocessor. 	10 10
	2. (a) Explain compile and go loader with advantages and disadvantages.(b) Explain various phases of compiler with example.	10
	3. (a) Differentiate between Top-down and bottom up parsing. Explain with examples (b) Construct predictive parsing table for following grammer.	10 10
	$S \rightarrow A$ $A \rightarrow aB \mid Ad$ $B \rightarrow bBC \mid f$ $c \rightarrow g$	
	4. (a) What is code optimization? Explain various strategies for code optimization.(b) Explain Run time storage organization in detail.	10 10
	5. (a) Translate the expression (a+b)*(c+d)+(a+b+c) into (i) Quadruple (ii) Triples (iii) Indirect triples	10
	(b) Explain different types of text editors	10
	 6. (a) Explain JAVA compiler environment. (b) Construct NFA for following expression and convert NFA into DFA for the regular expression (0+1)* 01 	10 10
	7. Write notes on any two: (a) LEX and Y ACC (b) Operator precedence parsing (c) Macro assemblers.	20
	AB SELECTION OF THE SEL	