## T.E-SEM-VI - CBGS- COMPUTER ENGG. - SPCC

12/05/15

QP Code: 5061

		(3 Hours	s)	[ Total Marks:	80
N.B. 1. Q.1 is Compulsory.					
2. Solve any THREE fr		o Q.6			
3. Assume suitable da			, with justification.		
			Company of the Compan		
Q.1 A) Differentiate between application program and system program.					5
B) State the reason for assembler to be multipass program.					5
C) Explain Functions of loader.					5
D) What is flow graph? State its significance in code generation.					5
			0		
Q.2 (A) For following code wha	t will be	output generat	ed by Pass-I and Pa	ss-II for two pass	10
assembler. Explain with			-, -, -, -, -, -, -, -, -, -, -, -, -, -	as it to pass	10
ABC	Start	0	ca and		
	USING	*,15			
	L	1,FIVE			
*	Α	1,FOUR			
	ST	1,TEMP			
FOUR	DC	F'4'			
FIVE	DC	F'5'			
TEMP	DS	1F			
	END				
(B) Explain operator pred		narser along	with example		10
Q.3 (A) Generate three addres					10
While (a <b) do<="" td=""><td></td><td></td><td></td><td></td><td>10</td></b)>					10
If (c <d) td="" then<=""><td></td><td></td><td></td><td></td><td>10</td></d)>					10
x=y+2					
else					
x=y-2					
*			· ·		
(B) Discus with example quadruple, triple and indirect triple.					10
	i e v				
Q.4 (A) Construct predictive p	arsing ta	ble for followin	g grammar.		10
S→ A	3				
A→ aB  Ad					
B→ bBC   f					
C→ g		45	* **		
(B) Explain loop optimize	zation v	with example	e u		10
Explore oop optimiz	Lation	vitir example.			
Q.5 (A) What are different iss	ues in c	ode Generation	n expalin in detail		10
(B) Explain run time storage organization in details.					10
(77)					# C1
Q. 5 Write short notes					20
(A) Code motion					- CO.
(B) LEX and YACC					
(C) Software tools		~ u _			
(D) Left recursion and le	eft facto	ring removal	technique		