	Name: Unishali saravade								
	ROUNO: 53 (TE COMP)								
	Sub 2 spos								
Q. 2,a	Token 8- Anna Marie Mari								
1401-1	A token is represented by a satisfy of Characters								
	In the source program. Such a story of characters								
	can be treated together as a lexical unit.								
	The second secon								
2	pattern 8-								
	A pattern is associated with everytoken we an								
	Say that there is a set of strings in the input for								
3. 240 4	which the same token is produced.								
7 11/10	ing contest is mense								
V., 45.	lexeme 6-								
,	A lexeme is a sequence of characters in the source								
	program that is matched by the pattern for a token.								
	For example - in the c statement	7.							
	in+ 21/2 5 ; Vol. 1/2)								
=	the substring my is a lexeme for the token identifier.								
	- 1 TORG								
	Lexical errors 8-								
	2. 1 TORG	_							
	Lexical errors 8- A lexical error occurs when a string of character	_							
	Lexical errors 8-	_							
6)	Lexical errors 8- A lexical error occurs when a string of character	_							
	Lexical errors 8- A lexical errors occurs when a string of character does not match any of the patterns for torons. Ans 8- Functions of loader 8-	<u></u>							
	Lexical errors :- A lexical errors occurs when a string of characters does not match any of the patterns for torons.	3							
	Lexical errors: - A lexical errors occurs when a string of character does not match any of the patterns for torons. Ans: 8- Functions of loader 8- A source program is converted to object program by assemblers and compilers. The loader is a program	3							
	Lexical errors 8- A lexical errors occurs when a string of characters does not match any of the patterns for torons. Ans 8- functions of loader 8- A source program is converted to object program by	3							
	Lexical errors 8- A lexical errors occurs when a string of character does not match any of the patterns for torens. Ans 8- Functions of loader 8- A source program is converted to object program by assemblers and compilers. The loader is a program which accepts to bject codes and prepares them for	3							
	Lexical errors :- A lexical error occurs when a string of character does not match any of the patterns for torons. Ans :- functions of loader :- A source program is converted to object program by assemblers and compilers. The loader is a program which accepts object codes and prepares them for execution and initiates execution.	3							
	Lexical errors &- A lexical errors occurs when a string of characters does not match any of the patterns for tocans. Ans 8- functions of loader 8- A source program is converted to object program by assemblers and compilers. The loader is a program which accepts object codes and prepares them for cexecution and initiates execution. functions 8- Allocation of Space in main memory for the programs.	3							
	Lexical errors 3- A lexical errors occurs when a string of character does not match any of the patterns for tocans. Ans 3- functions of loader 3- A source program is converted to object program by assemblers and compilers. The loader is a program which accepts to bject codes and prepares them for execution and initiates execution. Functions 3- Allocation of Space in main memory for the programs. Linear of Object modules with each other. Lineary	3							
instant (instant)	Lexical errors 3- A lexical errors occurs when a string of character does not match any of the patterns for tocans. Ans 3- functions of loader 3- A source program is converted to object program by assemblers and compilers. The loader is a program which accepts to bject codes and prepares them for execution and initiates execution. Functions 3- Allocation of Space in main memory for the programs. Linear of Object modules with each other. Lineary	3							
instant (instant)	Lexical errors :- A lexical errors occurs when a string of characters does not match any of the patterns flow to cons. Ans :- functions of loader :- A source program is converted to object program by assemblers and compilers. The loader is a program which accepts to bject codes and prepares them for execution and initiates execution. Functions !- Allocation of Space in main memors for the programs. Linking of Object modules with each other. Linking involves resolving of symbolic references between Object modules.	3							
· · · · · · · · · · · · · · · · · · ·	Lexical errors ?- A lexical errors occurs when a string of characters does not match any of the patterns for to cons. Ans ?- functions of loader ?- A source program is converted to object program by assemblers and compilers. The loader is a program which accepts object codes and prepares them for execution and initiates execution. Functions ?- Allocation of Space in main memory for the programs. Lineing of object modules with each other. Liveing involves resolving of symbolic references between Object modules. Adiust all address dependent locations, such as	3							
i)	Lexical errors ?- A lexical errors occurs when a string of characters does not match any of the patterns for to cons. Ans ?- functions of loader ?- A source program is converted to object program by assemblers and compilers. The loader is a program which accepts object codes and prepares them for execution and initiates execution. Functions ?- Allocation of Space in main memory for the programs. Lineing of object modules with each other. Liveing involves resolving of symbolic references between Object modules. Adiust all address dependent locations, such as	3							
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9	specification or a constant
AND RESIDENCE OF THE PARTY OF T	The EQU simply associates the asymbol > with the
	address specification.
e-g.	BACK FOU LOOP
0	The Symbol BACK is set to the address of loop.
3.	LTORG 80 A AND PORTO LA DE DILLER
1	The ITORG statement permits a programmer to spenty
	unhore literals should be placed of the LTORG
	statement is not present, literals are placed
	after the END statement.
2.	At every LTORG statement, memory is allocated to
	the literals of the current pool of literals. The pool
	contains all literaliused in the program since
1 63	the start of the program or since the last LTORG
	Statement, with the local
	in the moderate coole generally by now in
9.3.6	Ans 8-assembler pass-II of two pass assembler.
	Algerithm &-
A SUF	1. Code-area-address - oddress of code-area
	2. For each entry in IC CI
	1
	a) If an imperative statement
	i) Read LC
	11) get opcode
	111) Get operand / literal address from the symbol/
7	literal table. IV) Assemble instruct in machine code- butters.
1	v) Move contents of machine-code-buffer in code-
	area at the address LC+ Code_area-address
had.	b) If a Dc statement than
-	
	i) Read LC ii) Assemble the constant in machine-code-64fter.
•	(1) #350070

9.5. Step 1 :- Sr.ND LC Assembly statement Symbol table Interestable pool Symbol Address literal Add. Table 1. START 100 2 100 Mover Area - 5'											**		
SC-ND LC ASSEMBLY STATEMENT SYMBOL TALLE INEVAL TABLE POOL SYMBOL Address Internal Add. Table 1 START LOO 2 100 MOVER AREG = '5' 55 3 101 ADD CRE4 = '1' 11 4 102 A DS 3 A 102 5 105 LI MOVER AREA, B A 102 6 106 ADD AREA, C 7 107 MOVEM AREA, D 8 108 LTORG 5 108 1 109 3 D CAU A+1 109 10 110 L2 PETNT D 11 - ORFGEN A-1 12 101 SUB AREA = '1' 5 108 11 109 12 101 SUB AREA = '1' 5 108 14 103 C DC '5' A 102 L1 105 D 103 C 109 15 ORTAGN L2+1 16 111 STOP 17 112 B DC 13 B 112 18 -1 END 19 113 LTORA 5 108 0 11 101 2 2 1 113	4.5	· S	Step 1 0-										
Start Start Sym60 talk Interal table pool Sym60 Address Interal Add. table													
START OO	Sr.1	VO. 1	2. 1. C. Agramilia										
2 100 Mover AREG = 5'				133000019 stateme	ud Symbol ta		01 +964	1 literal table			pool		
2 100 Mover AREG = 5'	3	12		CTART Inc		Symbol	Addres	leteral Add.		Add.	table		
3 101 ADD CREQ - 1'			0		,	- 1 L	-	1		-	-		
4 102 A DS 3 A 102 5 105 LIMOVER AREA, B D A 102 6 106 ADD AREA, C 7 107 MOVEM AREA, D 8 108 LTORG 5 108 1 103 D EQU A+1 10 110 L2 PRINT D 11 - ORIGIN A-1 12 101 SUB AREA = '1' 5 108 1 109 1 1					-	1 1 1			5	·			
5 105 LIMOVER AREA, B D A 102 6 106 ADD AREA, C 7 107 MOVEM AREA, D 8 108 LTORG 5 108 1 109 3 D EQU A+1 10 110 L2 PRINT D 11 - ORFGEN A-1 12 101 SUB AREA = '1' 5 108 1 109 1 109 1 109 1 109 1 109 1 109 1 105 D 103 C 103 ORTGIN L2+1 1 G 111 STOP 1 I I B DC 19 1 I I DT 1 I I DT 2 I I I B DC 19 1 I I I DT 2 I I I I DT 4 I I I I I DT 4 I I I I I DT 4 I I I I I I I DT 4 I I I I I I DT 4 I I I I I DT 4 I I I I I I I I I I I I I I I I I I					-		10.0	1	1				
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3 D EQU A+1 10 110 L2 PRINT D 11 - ORFGEN A-1 12 101 SUB AREG = 1' 5 168 1 109 13 102 MULT CREG, B 14 103 C DC 5' A 102 L1 105 D 103 C 103 15 ORTGIN L2+1 16 111 STOP 17 112 B Dc 13 B 112 18 -1 END 19 113 L TOR4 5 108 0 1 1 107 2 2 1 113		1	1	Liony				1					
10 110 L2 PRINT D	3		\neg	D COU A+1	1			·		= = =			
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14 103 CDC'5' LI 105 D 103 C 103 ORIGIN L2+1 16 111 STOP 17 112 B DC 19 B 112 18 -1 END 19 113 L TORA 05 108 0 11 101 2 21 113	•.			15		i k		,		•			
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18 -1 END					F	3 1	112		1				
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11 101 2		113							10:	8	0		
							1	1			2		
							2	1	11 '	3			
	-								-				
											,		