Seat No.:		Enrolment No	_	
	GUJARA	TECHNC	DLOGICAL UNIVERSITY	
	MCA - SEM	ESTER-III • I	EXAMINATION – WINTER 2013	
bject	Date: 12-12-2013			
bject	Name: System	Software		
me: 0	2:30 pm TO 05	:00 pm	Total Marks: 70	
			ver necessarv	
		_	-	
(a)		-		0′
	• / •		on (IR)	
		-		
	(4) Simple Pre	ecedence		
	(5) Macro			
		K		
	(7) Linking			
(b)	What is Grammar?	? Explain the cl	assification of Grammars in detail.	0'
(a)	Construct the pa	rser table for	the following grammar using FIRST and	0′
()	FOLLOW set.			
	E = VT'			
		1		
			$\langle id \rangle$ - $\frac{1}{2}$ according to the given grammar	
	This variate the s		(according to the given graninal)	
(b)	Discuss different t	ypes of Entry fo	ormats used in Search Data Structures.	07
(1)			OR	
(b)				07
	-			
(a)	-		ATAB and LITTAB in the Assembler Pass I	07
(b)	-	-	nansion	07
(0)	write the argorithm		OR	U
(a)	Construct the PNT	TAB, SSNTAB,	MNT and MDT for following macro code.	07
		MACRO		
		· · · · · · · · · · · · · · · · · · ·	- /	
		ADD	AREG, &Z	
			VER	
	.ONLY	MOVER	AREG, &Z	
	.OVER	MEND		
<i></i>	W 7 '4 41 1 '41	m for Socond D	A 11	02
(b)	Write the algorithm	II IOI Secolid Pa	ass Assembler.	U
	bject bject me: 0 tructio 1. 2. 3. (a) (b) (b) (b) (b) (a) (b) (b)	GUJARAT MCA - SEMbject Code: 2630005bject Name: System me: 02:30 pm TO 05tructions:1. Attempt all quest:2. Make suitable ass3. Figures to the rigit(a) Define the followid (1) Operator C (2) Intermedia (3) Forward R (4) Simple Pred (5) Macro (6) Basic block (7) Linking(b) What is Grammard (a) Construct the patheter of the pathet	GUJARAT TECHNCC MCA - SEMESTER-III • Ibject Code: 2630005bject Name: System Software me: 02:30 pm TO 05:00 pm tructions:1. Attempt all questions.2. Make suitable assumptions where 3. Figures to the right indicate full m(a) Define the following terms. (1) Operator Grammar (2) Intermediate Representation (3) Forward Reference (4) Simple Precedence (5) Macro (6) Basic block (7) Linking(b) What is Grammar? Explain the cla (a) Construct the parser table for 	GUJARAT TECHNOLOGICAL UNIVERSITY MCA - SEMESTER-III • EXAMINATION – WINTER 2013 bject Code: 2630005 Date: 12-12-2013 bject Code: 2630005 Total Marks: 70 Total Marks: 70

- Discuss the role of static and dynamic pointer for accessing local and nonlocal Q.4 (a) 07 variable in block structured language using suitable example and figure. 07
 - (b) Write a short note on "Compilation of Expression".

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OR

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Q.4	(a)	What is difference between Local and Global optimization? Discuss the issues	07		
	related to Common Subexpression Elimination in Global optimization.(b) Explain the parameter passing mechanism in Function and Procedure calls.				
	(0)	Explain the parameter passing meenanism in random and rocedure cans.	07		
Q.5	(a) What is Program Relocation? Explain Relocation algorithm in detail.				
	(b)	List out the different loading schemes. Explain Compile-and-Go loader in	07		
		detail.			
		OR			
Q.5	(a)	Explain the Linking for Overlays in detail.	07		
-	(b)	Discuss different types of Editors used as a Software Tools.			
