	Date:
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	Rall Na: 0077
	Branch: Computer Batch: T4 Subject: System Programming and operating Systems
	odpled. System 1. ogserming ogsrens
	Tupic: Assignment 2. (Theory)
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	Level will thought by the time
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	Date :
	Ouestions:
	1. Explain expansion time variables and expansion time
6	explain data structures used in two pass macro
	processor.
-	Answexs:
	Enponsion time variables (EV):
	These variables are used only during enousing
	of macro calls. Expansion time variables one
	CXECTED LOCAL EV IC CXECTED LANGUES
	any during a particulor macro call.
	Junian: LCL < EV Specifications > [FV soc > - 7
	aBL < EV specifications > [: EV spe >]
	Lieu (spect 7 has the support of the
	out to saline, or ordinary (smooth
	significant is used to manpulate value
	of EV.
	< EV speci > SET < get expression >
	where < EV spec > B in label field.
	SET is in mnemonic field.
$-\parallel$	
	Expansion Time Loops:
#	It can be written using expansing time variables
	L expansion time control transfer start AIF L
	AGO
	cg: MACRO
	CLEAR LA

MOVER AREG = 'O'

	Date :
	MOVEM AREG LA+1 MOVEM AREG LA+1 MOVEM AREG LA+2 MEND where clear B B called, the Mover statements puts value 'o' in AREG. The remaining 3
•	byte with the addresses B B+1, B+2.
Ь.	The following data structures used in two pass distributed marro processor: i. MDT L MNT are created by Pass 1. MDT - Macro definition tuble. It is to perform macro enpirista. MDT - Macro Name tuble. It is for reacy nizing macro name.
	ii. MDTP - Macro definiation table pointer. - Used to indicate next line of text to be used during macro expansion.
	- Used to substitute macro call arguements for inden mothers in stored macro definitions.