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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

GUJAKAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER–IV (NEW) EXAMINATION – WINTER 2018			
			5/12/2018
		Name:Computer Organization	
Time: 02:30 PM TO 05:00 PM Total Marks: 70			
Instru			<b>141 KS.</b> 70
111501		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	MADIZO
			MARKS
Q.1	(a)		
	(b)		04
	(c)	Explain four types of instruction formats.	07
Q.2	(a)		03
	(b)	1 1 2	04
	(c)		l. <b>07</b>
		OR	
~ ~	(c)		07
Q.3	$(\mathbf{a})$	· · ·	03
	(b)		04
	(c)	What is register stack? Explain push and pop micro-operations. <b>OR</b>	07
Q.3	(a)		03
Q.0	(b)	-	03
	$(\tilde{c})$	Explain second pass of an assembler with diagram.	07
Q.4	(a)		03
· ·	<b>(b)</b>	Draw space-time diagram for 4-segment pipeline with 8 tasks.	04
	(c)	Write an assembly program to multiply two positive numbers.	07
		OR	
Q.4	(a)		03
	<b>(b)</b>	1 1 0	04
0 -	(c)	Write an assembly program to add 10 numbers from memory.	07
Q.5	$(\mathbf{a})$		03
	$(\mathbf{b})$	-	04
	(c)		07
		address map of RAM and ROM. <b>OR</b>	
Q.5	(a)		03
×	()	1) Data dependency 2) Pseudo instruction 3) Effective address	
	(b)		04
	$(\tilde{c})$		
		memory.	

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