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SARDAR PATEL UNIVERSITY SYBCA Third Semester EXAMINATION CBCS 22/11/2013 (Friday)

22/11/2013 (Friday)
Introduction to Microprocessors- US03EBCA01

Time: 2.30 pm – 4.30 pm Total Marks: 70

Q.1		Select most appropriate single answer:			[10]
	1.	The is responsible for performing			
	_	(A) EU (B) BUS (C)BIU	(D) ALU	
	2.	A flag is a one type of (A) Latch (B) Gate (C) Flip-F	-1	(D) N: (II	
	2	(A) Laten (B) Gate (C) Filp-F	-lob	(D) None of these	
	3.	AAA stands for (A) Adjust for Addition	/D\	Adjust After Addition	
				Adjust After Addition	
	4	(C) ASCII Adjust for Addition In AND instruction which flags are reset?	(D)	None of these	,
	4.		/D)	CF, OF	
				None of these	
	5	NO stands for	(0)	None of these	
			(B)	Nothing	
-		, ,		Invert each Bit	
	6	Assume BL = 5BH	(0)	TIVE COULDIC	
	0.	AND BL, 2AH			
		What is the value of BL register?			
			(B)	5AH	
			(D)		
	7.	SHR - Shift operand Right, put ze	, ,		
		(A) Bits, LSB (C) Bytes, MSB	(D)	Bits, MSB(s)	
	8	The full form of DB directive is			
		(AT DI DI	(B)	Define Bits	
		(C) Define Byte	(D)	None of these	;
	9.	In REPEAT-UNTIL structure the action(s)	is do	ne once condition is	
		checked.			
		(A) After		before	
		(C) in the structure	\ /	None of these	
	10.	The SEGMENT directive is used to indicate	te the	of logical segment.	
3		(A) start		end	
		(C) address	(D)	None of these	
-		Maria American in about Attenue Amy To			[20]
Q.,		Wr te Answers in short. Attempt Any Te Explain the following terms:	B11.		[20]
	1.	1) ALU 2) Flag			
	2.	Explain the concept of Assembler?			
	3.	What physical address is represented by	3272	2:561BH ?	
	4.	State the INC – Increment instruction.	-		
	5.	Explain OR instruction with example.			
	6.	Explain the instruction AND AH, CL with o	iescr	iption.	
	7.	Describe below code.			;
		MOV CL, 04H			
		ROR AL,CL			
	8.	Differentiate between SHL and SHR.			
	9.	MOV AL,98H			
		SHL AL,1			
		What will be the content of AL register?			
		Explain DB directive.			
		Explain END directive.			
	12.	Explain structure of assembly program.		Page 1 out of 2	

Q.3	Draw the diagram of 8086 internal architecture Also explain BIU of 8086	[10]
	Architecture. OR	
Q.3 [A] [B]	Explain Instruction pointer in detail. Explain EU in detail.	[5] [5]
Q.4 [A] [B]	Explain DIV instruction by taking appropriate examples. Write a short note on CMP instruction. OR	[5] [5]
Q.4 [A] [B]	Explain NEG instruction by taking appropriate example. Write a short note on ADC instruction.	[5] [5]
Q.5 [A] [B]	Explain ROR instruction with example. Explain LOOPZ instruction with example. OR	[5]
Q.5 [A] [B]	Explain ROL instruction with example. Explain JE instruction.	[5] [5]
Q.6 [A] [B]	Explain the IF structure with example. Which are the Looping structures? Explain any one in detail. OR	[5] [5]
Q.6 [A]	Write a program for Multiplication of Two Numbers. (without using MUL instruction)	[5]
[B]	Explain Assembler directives: ASSUME, LABEL, and SEGMENT.	[5]
	*** All the Best ***	

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