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## SARDAR PATEL UNIVERSITY BCA(3rd SEM) - NC EXAMINATION Janyary - 2021 US03EBCA01 - INTRODUCTION TO MICROPROCESSORS 5 th Janyary, 2021, Tuesday

Time	9:2:00 PM to 4:00 PM M	arks: 70
Q. 1		[10]
. 1	The are used to balance power supply in computer.	
	(A) Transistors (B) Capacitors (C) Microchips (D) None of these	
2	A flag is one type of	
	(A) Latch (B) Gate (C) Flip-Flop (D) None of these	
3	The assembler list file extension is	
	(A) .obj (B) .lst (C) .lis (D) None of these	
4	DIV stands for	
	(A) Division (B) Signed Division (C) Unsigned Division (D) None of these	<b>;</b>
5	AND – AND corresponding operands.	
	(A) Bits of two (B) Bytes of two (C) Words of two (D) All of these	
6	NOT stands for	
	(A) Negative (B) Nothing (C) Invert all byte (D) Inver each bit	
7	SHR – Shift operand Right, put zero in	
	(A) Bits, LSB (B) Bytes, LSB(s) (C) Bytes, MSB (D) Bits, MSB(s)	
8	JZ is executed when the zero flag is	
	(A) reset (B) set (C) undefined (D) None of these	
9	The full form of DB directive is	
	(A) Data Byte (B) Define bits (C) Define Byte (D) None of these	
10	The END directive ends the	
. 7	(A) segment (B) program (C) procedure (D) None of these	
Q. 2	Fill in the blanks and True / False. (One marks each)	[80]
1	Embedded Controllers are also called microcontrollers. (True / False)	
2	The is responsible for decoding and executing instructions.	
3	CF indicates Common Flag. (True / False)	
4	AAA stands for	
5	LOOZ means – LOOP WHILE CX≠0 and ZF=1. (True / False)	
6	ROL stands for Rotate of Operand Left.	
7	The SEGMENT directive is used to indicate the end of logical segment.	
	(True/False)	
8	There are types of control structure in assembly language programming.	

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Q. 3	Short answer questions (Attempt any 10 out of 12)	[20]
1	Define Microprocessor and name its components.	
2	Explain the terms: 1] ALU, 2] Flag	
3	What is Pipelining?	
4	Explain CMP instruction with example.	
5	State the INC – Increment instruction.	
6	Explain the following description:	٠.
	1] OR AH, CL	
	2] OR BP, SI	
7	What do you mean by conditional JUMP? Explain with example.	
8	Explain LOOPZ instruction with example.	
9 .	MOV CL, 04H	
	ROL BL, CL	
	Describe above code.	
10	Draw structure of a typical assembly program.	
11	List all loop structure and write syntax of any one of them.	
12	What is the use of PAGE and TITLE directive in assembly program?	
Q. 4	Long answer questions (Attempt any 4 out of 8)	[32]
1	Explain 8086 internal architecture with diagram.	
2	Explain conditional flags in detail.	
3	Describe ADD and SUB instruction with example.	
4	Explain Logical instructions in detail.	
5	Write a short note on ROL and ROR instruction with example.	
6	Explain JZ and JNC instruction with example.	
7	Explain Assembler Directives and Describe any three in detail with example.	
8	List control structure. Explain any one in detail.	