

School: School of Engineering and Technology

Computer Science and Engineering

Program/s:

Department

Year: 2nd

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Examination:

End Semester Examination

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Course Code: CS233

Course Name: Introduction to Microprocessor

Total Marks: 40

Date: Time:

06/12/2021

08:30 am to 10:30 am

Total Pages: 02

Instructions:

→ Write each answer on a new page.

→ Use of a calculator is permitted/not permitted.

→ *COs=Course Outcome mapping. #BTL=Bloom's Taxonomy Level mapping

Q. No.	Details	Marks	COs*	BTL#
Q.1	Attempt all Objectives	10		
1.	There are general purpose registers in 8085 processor			
	a) 5		CO1,	BT1,
	b) 6		CO2	BT2
	c) 7			
2.	d) 8 It is also a 16-bit register works like stack, which is always incremented /			
۷.	decremented by 2 during push & pop operations.			
	a) Stack pointer		CO1	BT1,
	b) Temporary register		CO2	ВТ2
	c) Flag register			8
	d) Program counter			2.2
3.	What is true about Program Counter?			
11	a) It is an 8-bit register, which holds the temporary data of arithmetic and logical		. A	
	operations.		COR	BT1,
	b) When an instruction is fetched from memory then it is stored in the program		CO2, CO3	ВТ2,
	counter c) It provides timing and control signal to the microprocessor		003	BT3
× 6	d) It is a 16-bit register used to store the memory address location of the next			
	instruction to be executed.			
4.	Which bus controls the sequencing of read/write operations?			
	A). Data bus		CO1,	BT1,
	B). Address bus		CO2	BT1, BT2
	C). Control bus		CO3	012
	D). Sequence bus	-		
5.	Which of the following statement is related to Accumulator?			ВТ2
	a) It is a storage elementb) It performs complementing operations		CO2,	BT3
	c) It performs complementing operations		CO3	D13
	d) All the above			
	a) In the above			
			1	

6.	The BIU prefaces the instruction from memory and store them in		CO2,	BT1,
	a) queue		CO3	BT2,
7.	b) register		003	BT3
	c) memory			БТЗ
	d) stack			
	In the operand is specified in the instruction itself			
	a) Immediate addressing		CO1,	BT1,
	b) Register mode		CO2	BT2
	c) Implied addressing		C02	DIZ
	d) D. Register Indirect The addressing mode/s, which uses the PC instead of a general purpose register is			
8.	The addressing mode/s, which uses the FC instead of a general purpose register is			
			CO1	BT2,
	a) Indexed with offset		CO2	BT3
	b) Relative		CO3	DIS
	c) Direct			
	d) D. Both Indexed with offset and direct			
9.	A set of register which contain are:			
	a) data			BT1
	b) memory addresses		CO1	BT2
	c) result			DIZ
	2			
	d) all of these is the most important segment and it contains the actual assembly	-		
10.	is the most important segment and it contains the actual assembly			
	language instruction to be executed by the Microprocessor.		CO2,	BT1
	a) Code Segment		CO3,	BT2
	b) Data Segment		CO4	BT3
	c) Stack Segment			
	d) Extra Segment			
Q.2	Attempt all Questions	05		
1.	Mention the purpose of SID and SOD in 8085 Microprocessor.		CO1,	BT2
1.			CO2	BT3
2.	What is Static RAM and Dynamic RAM?		CO1	BT2
3.	Write down the features of In-Circuit Emulator.	,	C05	BT2
٥.	Witte down the reactives of the survey		603	BT4
4.	Mention the characteristics of Logic analyzer.		COL	BT2
	Mention the characteristics of hogic unaryzer.		CO5	BT4
	Write down the advantages of using segment registers in 8086 Microprocessor.		CO2	BT1
5.	Write down the advantages of using segment registers in 6000 Meroprocessor.		CO3	BT2
	Attempt any 5 Questions	25	100	
Q.3			CO2,	BT1
1.	Explain the Flag Register of 8086 Microprocessor with diagram.		CO3	BTZ
2.	Explain the General Purpose Register of 8085 Microprocessor with diagram.		CO1,	BT1
			C02	BT:
3.	Define the various functional units of Pentium architecture. Explain any three.			BT1
	Define the various twisters		CO5	BTZ
				BT:
	Explain the Microprocessor Bus Organization with diagram.		001	BT
4.	Explain the Microprocessor bus organization with diagram.		CO1	BT
	Describe the various buses available in Microprocessor.		CO2	
			-	BT
5.	Explain the Control Unit and Execution unit of 8087 Co-Processor.		C04	BT
			004	BT
			000	_
6.	What is the work of Data Transfer Instruction Set in 8086 Microprocessor and 8087		CO2	BT
	Co-Processor with example.		CO3	BT:
	ME SECRETARY MODEL TO THE PERSON OF THE PERS		CO4	BT
-	Montion the jobs performed by RIII and FII in 8086 Microprocessor		CO1,	Dm.
7.	Mention the jobs performed by BIU and EU in 8086 Microprocessor.		CO1,	BT:

***********End of Question Paper******