## **COER University**

## END SEMESTER EXAMINATION, EVEN SEM 2022-23

**Time** : 3 hours Total Marks: 100

**Program Name: BCA** 

Semester : IV

**Course Code: SOC258** 

Course Name : Computer Organization

Note: All questions are compulsory. No student is allowed to leave the examination hall before the completion of the

	Carries 5 Marks.	СО	BL
Q. No 1	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO 1	1
(a)	List the different types of bus architecture.	CO 1	1
(b)	What is bus and explain its types?	CO 1	1
(c)	Write a short note on Shift Registers.	CO 1	3
(d)	Write a short note on Shift Registers.  The following memory units are specified by the number of words times the number of bits per word. How many address lines and input-output data lines are needed in each case?  (a) 64V x 81 (b) 16M x 32; (d) 4G X 64.		
	(a) 16M V 1/1	CO 1	3
(e)	(a) 2K x 16; (b) 64K x 8; (c) 10M x 32; Construct a diagram that shows how a bus and memory transfer works.		

	Coming E Marks	CO	BL
Q. No 2 (a)	Attempt Any Four Parts. Each Question Carries 5 Marks.  Differentiate Micro programmed control Microinstruction and Micro programmed	CO 2	4
	Sequencing.	CO 2	1
(b)	Describe the working of Binary adder.  Describe the working of Binary adder.  Describe the working of Binary adder.	CO 2	4
		CO 2	1
(c) (d)	Illustrate how data is transferred between competition of a complete instruction.	CO 2	3
(e)	Define hardwired control unit and micro programmed complete instruction.  Construct a flowchart to illustrate the execution of a complete instruction.		

	- F Marke	CO	BL	_
	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO 3	1	
	Attempt Any Four Parts. Each Question Carries 3 Marks.  Define the concept of general register organization with the help of block diagram?	CO 3	1	
( 3.7	1 at note on processor organization.	CO 3	1	
(3)	Briefly describe Reduced Instruction Set Computer.	CO 3	1	
(c)	Define Interrupt Handling in detail.  Define Interrupt Handling in detail.  Set Computer (RISC) and its characteristics.	CO 3	2	
(d) (e)	Define Interrupt Handling in detail.  Explain Reduced Instruction Set Computer (RISC) and its characteristics.			7

		and the same of th	CO	BL	
		Attempt Any Two Parts. Each Question Carries 10 Marks.	CO 4	4	
ς	2. No 4	Differentiate RAM and ROM chips with block diagram.  Differentiate RAM and ROM chips with block diagram.	CO 4	2	
	(a)	Differentiate RAM and ROM chips with block diagram.  Explain the memory hierarchy with describing the capacity, speed and price to			
	\ <b>-</b> /		CO 4	4	
	•	purchase.  Differentiate between Cache Memory and main memory.	-		
	(c)	Differentiate between Cache Memory and			
	(4)	"track"		-	1

		Corries 10 Marks.	CO	BL 4	
ſ	Q. No 5	Attempt Any Two Parts. Each Question Carries 10 Marks.	CO 5	1	
	(a)	Differentiate RISC and SISC.  What is a multiprocessor system? Describe its characteristics.  Wester and Array processing. Are there any	CO 5	3	
	(4)	What is a multiprocessor system? Describe its characteristics. Are there any Describe and differentiate between Vector and Array processing. Are there any			
	(c)	similarities between the two?			

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