Subject	Code:	ACSE0305
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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech((SE))
(SEM:3rd, SESSIONAL EXAMINATION -I) (2021-2022)

Subject Name: Computer Organization and Architecture

Time: 1.15Hours

SETA

Max. Marks:30

General Instructions:

- All questions are compulsory. Answers should be brief and to the point.
- ➤ This Question paper consists of 2 pages & 5 questions.
- It comprises of three Sections, A, B, and C. You are to attempt all the sections.
- > Section A Question No- 1 is objective type questions carrying 1 mark each, Question No- 2 is very short answer type carrying 3 mark each. You are expected to answer them as directed.
- > Section B Question No-3 is Short answer type questions carrying 5 marks each. You need to attempt any two our of three questions given.
- > Section C-Question No. 4 & 5 are Long answer type (within unit choice) questions carrying 6 marks each. You need to attempt any one part a or b.
- indicats are instructed to cross the blank sheets before handing over the answer sheet to the invigilator.
- > No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

		SECTION – A	[8]	
1.	Atte	mpt all parts	(4×1=4)	
	à.	Which bus is a bidirectional bus i)Address Bus ii)Data Bus iii)Control bus iv)None of these	(1)	CO 1
	b.	Program counter (PC) contains i) Address of the current instruction fetched iii) Value of the operand iv) Starting address of the program	(1)	CO 1
	c.	To overcome the conflict over the possession of the BUS, we use i)Optimizers ii)BUS arbitrators iii)Multiple BUS structure iv)None of these	(1)	CO 1
	d.	RTL stands for i) Register Transfer Language iii) Regular Transmission Language iv) Regular Transfer Language	(1)	CO 1
2.	Att	empt all parts	$(2 \times 2 = 4)$	
	a.	Differentiate between computer architecture and computer organization.	(2)	CO 1
	b.	What is multiplexer? Give some applications of multiplexer.	(2)	CO 1
	1	SECTION – B		
3.	Answer any two of the following-			
	la.	Define Register. Explain various types of registers present inside the CPU.	(5)	CO 1
-	b.	Draw diagram for given statement P: R2←R1 and discuss in detail.	(5)	CO1
	e.	Show the bit configuration of 24-bit register when its contents represent the decimal equivalent of 195 in a) BCD b) binary c) binary coded octal	(5)	CO 1

		d) binary coded hexadecimal		
	1	SECTION - C	4	
4	Ans	wer any one of the following-	[2×6=12]	
	a.	Explain various methods of static priority arbitration with neat diagram	(6)	CO 1
	b.	Draw and explain block diagram of simple computer with five functional units.	(6)	CO 1
5.	Ans	wer any one of the following-		
	, a.	Design two bit common bus system using four registers by using suitable	(6)	CO 1
	-	number of multiplexers		
	b.	Write short notes on Bus Architecture.	(6)	CO 1

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