Subject Code: ACSE0305	Sub	iect	Code:	A	CS	EO:	305
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## NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA (An Autonomous Institute)

Affiliated to Dr. A.P. J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow

Course: B.Tech

Branch: Computer Science & Engineering

Semester III

Sessional Examination III

Year- (2021- 2022)

Subject Name: Computer Organization and Architecture

Time: 1.15 Hours

[SET-B]

Max. Marks:30

## General Instructions:

> This Question paper consists of 2 pages & 5 questions. It comprises of three Sections, A, B, and C

Section A Question No-1 is objective type questions carrying 1 mark each, Question No-2 is very short answer type carrying 2 mark each. You are expected to answer them as directed.

➤ <u>Section B</u> - Question No-3 is Short answer type questions carrying 5 marks each. Attempt any two out of three questions given.

Section C - Question No. 4 & 5are Long answer type (within unit choice) questions carrying 6 marks each. Attempt any one part <u>a or b.</u>

0	SECTION - A	[08Marks]	
1.	All questions are compulsory	(4×1=4)	
	a. Micro operation ASHL R1 & ASHR R1	, if R1= 01001 (1)	CO3
	b. Write full form of RISCand CISC	(1)	CO3
	c. Bias value of single precision double precision IEEE754 floating point representation.	n of (1)	CO2
	d. Choose correct option for single and double precision I point representation- i) 1 bit ii) 8 bit iii) 53 bit iv) Non	ne of these	CO2
2.	All questions are compulsory	(2×2=4)	
	a. Explain control memory with suitable diagram.	(2)	CO3
	b. Sketch the diagram of Instruction cycle and Sub cycle.	(2)	CO3
	SECTION - B	[10Marks]	
3.	Answer any two of the following-	(2×5=10)	
	a. Sketch the flow diagram of division algorithm.	(5)	CO2
	b. Represent in IEEE754 single precision-	(5)	CO2
	i) 20.125 ii) -5.50	20	
,0	c. Differentiate Horizontal and Vertical microprogrammi	ng. (5)	CO3

		SECTION - C	[12M:	THE REAL PROPERTY.		
4	Answer any one of the following-					
	a.	Perform two address and zero address instruction for given equation $Y = (M+N) * (P-Q)$	(6)	CO3		
	b.	Discuss the pipeling concept with suitable example and diagram.	(6)	CO3		
5.	Ans	wer any one of the following-	(1×6=6)			
	a.	Discuss the memory hierarchy with suitable diagram.	(6)	CO4		
	b.	Design & discuss the micro programmed control with suitable diagram.	(6)	CO3		

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