Roll No
Total No. of Questions: 9] [Total No. of Printed Pages: 4
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BCA (CBCS) RUSA IIIrd Semester Examination
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COMPUTER ORGANIZATION BCA-0303
Time: 3 Hours] [Maximum Marks: 70
Note: - Attempt five questions in all, selecting one question each from Units-I, II, III and IV. Q. No. 1 (Part-A) is compulsory.  Part-A
(Compulsory Question)
1. (A) Attempt all questions:
Fill in the blank spaces:
(i) The floating point representation of a number has two parts and 1,1
(ii) Complements of numbers are used in digital computers for logical manipulation and operation.
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(iii)	Control word has bits.	16 - 20	(B)	Answer the following in 25 to 50 words:
(iv)	The Stack Pointer SP points at the of the stack.	1		(i) How alphanumeric representation is done in a computer ?
Stat	e whether the statement is True or False :		2 XIX	(ii) Write a short note on logic micro-
(v)	Prefix notation is same as Polish Notation.			operations.
	(True/False)	1		(iii) Explain the terms microinstruction and
(vi)	A software interrupt is initiated by		flate	micro program.
	executing an instruction. (True/False)	1	) V	(iv) Explain relative addressing mode.
	swer the following MCQs by selecting the st appropriate option:	-41		(v) Explain the working of Half-Adder. 4×5=20
(vii)	Which logic circuit would you use for			Part–B
	addressing memory ?			Unit-I
	(a) Full Adder (b) Multiplexer		2. (i)	Convert the following numbers to the bases
	(c) Decoder (d) DMA circuit	1		indicated below:
(viii	i) Where the result of an arithmetic and			(a) $(7968)_{10} = (?)_8 = (?)_2 = (?)_{16}$
	logical operation are stored?		10. 550	(b) $(478.5)_{10} = (?)_2 = (?)_8$ 3,2
	(a) In Accumulator		(ii)	Perform the subtraction with the following
	(b) In Cache Memory			unsigned decimal numbers by taking 10's
	(c) In ROM	4		complement of the subtrahend.
	(d) In Instruction Registry	1		(a) 5250-1321
(ix)	The state of the s	- 11		(b) 1753-8640 5
	system caused by an event external to the CPU is known as:		3. (i)	What do you mean by BCD arithmetic? Give an example to explain it.
	(a) Halt (b) Process		(ii)	Discuss error detection code used in the parity
-	(c) Interrupt (d) None of these	1		bit. 5,5
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## (B) Answer the folilitation at 25 or 5% weekly

4.	(i)	What do you mean by Register Transfer ?	
	2.	Discuss. " miserius s or	
	(ii)	Give the construction of Bus System with three-	
	90	state buffers.	4,6
5.	(i)	Explain the working of 4-bit Binary Adder.	
	(ii)	Write a short note on Arithmetic Logic Shift	
		Unit.	4,6
		plan-itell in geUnit-III in his replace	
6.	(i)	What is an Instruction Code? What are its	
		Parts ?	
	(ii)	Explain the common Bus System which transfers	0
		information occurrence is	4,6
7.	(i)	What is an Instruction Cycle? Discuss its phases.	
	(ii)	How Register-Reference instructions are	
	Sidi A	recognized ? Explain. and another (ii)	5,5
	2.413	Unit-IV bob benghou	
8.	(i)	Give the circuit diagram of CPU and also	
		explain its working.	
	(ii)	What is a Control Word? Name its fields.	7,3
9.	(i)	Discuss the Instruction Formats of a computer system.	J
	(ii)	Differentiate between Implied and Immediate modes of addressing.	6,4
C	-57	'Q	g-th