Roll	No.	

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Total No. of Questions 9] [Total No. of Printed Pages : 4

BCA (CBCS) RUSA IIIrd Semester Examination

4515

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) as compulsory.

Part-A

(Compulsory Question)

(A) Attempt all questions:

Fill in the blank spaces :

- The floating point representation of a (1) number has two parts Ren and Mr. P. EsiTral
- (ii) Complements of numbers are used in digital computers for logical manipulation

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(1)

Turn Over

1.1

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	VA-	
(iii)	Control word has 65 bits.	1
(iv)	The Stack Pointer SP points at the	1
State	whether the statement is True or False :	
(v)	Prefix notation is same as Polish Notation.	
	(Trus/False)	
(vi)	A software interrupt is initiated by	,
	executing an instruction. (True/Faker	I
	ver the following MCQs by selecting the appropriate option :	
(vii)	Which logic circuit would you use for addressing memory ?	
	(a) Full Adder (b) Multiplexer	
	(d) DMA circuit	1
	Where the result of an arithmetic and logical operation are stored?	
	(a) In Accumulator	
-	(b) In Cache Memory	
	(c) In ROM	
	(d) In Instruction Registry	1
(ix)	An exception condition in a computer system caused by an event external to the CPU is known as:	
	(a) Halt (b) Process	
	(d) None of these	ı

(B) Answer the following in 25 to 50 words: How alphanumeric representation is done (i)in a computer? Write a short note on logic micro-(11) operations. (iii) Explain the terms microinstruction and micro program. (iv) Explain relative addressing mode. (v) Explain the working of Half-Adder. 4x5=20 Part-B Unit-I 2. (i) Convert the following numbers to the bases indicated below: (a) $(7968)_{10} = (?)_{1} = (?)_{1} = (?)_{11}$ (b) $(478.5)_{10} = (?)_1 = (?)_1$ 3.2 (ii) Perform the subtraction with the following unsigned decimal numbers by taking 10's complement of the subtrahend. 5250-1321 (a): 1753-8640 (b) 5 3. (i) What do you mean by BCD arithmetic ? Give an example to explain it. Discuss error detection code used in the parity (ii)bit. 5.5 Turn Over

Unit-II

4.6
4.6
4.6
5.5
7.3
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