Total No.	of CO's 04
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Seat No:

[Total No. of Pages:01

G. H. Raisoni College of Engineering and Management, Pune.

(An Autonomous Institution Affiliated to Savitribai Phule Pune University)

S.Y B. Tech (Computer /ENTC Engineering) (Term-III)

ESE Winter-2020 (2019 Pattern)

COMPUTER ARCHITECTURE & ORGANIZATION (BCOL19201)

[Time: 1.5 Hours]

[Max. Marks 30]

COURSE OUTCOME:

- 1. Describe fundamental units of Computer System
- 2. Analyze organization and design of memory system
- 3. Identify different ways of communicating with I/O devices and interfaces
- 4. Analyze the working of serial and parallel system

Instructions to the candidates:

- 1) (CO1/CO2/CO...)at the beginning of question/sub question indicates the course outcome related to the question.
- 2) All questions compulsory.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Figures to the right indicate full marks.
- 5) Assume suitable data, if necessary.

CC)1 a,	List out Addressing mode and explain any 4 modes with examples?	[5]
СО)2 <i>a</i>)	Demonstrate Booths multiplication for given example? e.g. (-5*-3)	[5]
CO	2 <i>b</i>)	Solved example using Single and double precision (12.125) ₂ ?	[4]
CO3	a)	Explain working of micro programmed control unit?	[4]
CO3	a)	Draw and explain multiprocessor organization?	[4]
CO3	b)	Draw and explain working of pipeline of processor?	[4]
CO4	a)	Write Difference between RISC and CISC processor?	[4]

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		S.Y B. Tech ESE Winter	f Engineering and Management, Pune. ffiliated to Savitribai Phule ,Pune University) (E&TC/IT) (Term-III) -2020 (2019Pattern) tures (BITL19202)	
[Tin	ne: 1 ½ Hor		[Max. Marks:30]	
OURS	E OUTCOME		[Max. Marks.50]	
		the usage of various data struc	ture	
2.	To analyze problems.	, evaluate and choose approp	oriate abstract data types and algorithms to solv	e partic
3.	To Compare	e and contrast the benefits of d	ynamic and static data structures implementation.	
4.	To design a	nd implement the learned data	structure algorithm for problem solving.	
1) (Co 2) All 3) No 4) Fig 5) As	questions cor eat diagrams r gures to the ri)at the beginning of question/sub q npulsory. nust be drawn wherever necessary. ght indicate full marks. data, if necessary.	nuestion indicates the course outcome related to the question	1.
СО	Sub Question			Marks
C01	a)	Describe with suitable exam	ple function with call by reference.	[3]
	b)	Illustrate with suitable example queue and its operations. OR		
	c)	Explain the methods used for	r avoiding collision in linear hashing.	[3]
CO2	a)	Evaluate the given prefix expression (- + * 5 6 2 / 6 4) by choosing appropriate data structure.		
	b)	Choose appropriate data structure to build balanced binary search for the data - 15, 20, 24, 10, 13, 7, 30, 36, 25		
CO3	a)	Compare and contrast structu	are and union with syntax.	[4]
	b)	Distinguish between hashing	with linear and binary search methods.	[4]
CO4	a)	Write a function to insert data	a at the end of doubly linked list.	[4]
	b)	Write a C code to create a file Name and Class and display	e called student database consisting of RNO, the contents from the file on to display device.	[4]
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