# UNIT - I

2.	Convert the following numbers with the indi	cated
	bases to decimals :	15
	(a) (12121) <sub>3</sub>	
	(b) (4310) <sub>5</sub>	
	(c) (50) <sub>7</sub>	
	(d) (198) <sub>12</sub>	
-	(e) (125) <sub>7</sub>	
3.	(a) Explain Logic Microoperations in detail.	7.5
	(b) Explain Shift Microoperations in detail.	7.5
	. UNIT – II	
4.	Explain design of accumulator logic in detail.	15
5.		pes of
	addressing modes in detail.	15
	UNIT - III ONU	
6.	Describe parallelism. What are its objectives	? Also
	explain pipelining technique.	15
7.	How parallel processing enhances the	system
	performance ? Explain.	15
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# UNIT - IV

8. Write short notes on the following: 15
(a) Direct Memory Access
(b) Software Interrupts
9. What is associative memory? Explain direct mapped cache organization in detail. 15

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(3)

Roll No. ....

# 3086

# B. Tech. 4th Semester (CSE) Examination – May, 2023

# COMPUTER ORGANIZATION & ARCHITECTURE

Paper: PCC-CSE-204-G

Time : Three hours ]

[ Maximum Marks: 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt any five questions in all, selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

- 1. (a) Convert the following binary numbers to decimal: 111010; 100101.
  - (b) Why Gray code is called reflected code? Explain.
  - (c) Write down the list of registers and their functions of the basic computer.
  - (d) What is direct associative memory? Describe.
  - (e) What is interrupt? Explain types of interrupt.
  - (f) Explain cache memory mechanism.  $2.5 \times 6 = 15$

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P. T. O.

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