

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-IV(NEW) EXAMINATION – WINTER 2022****Subject Code:3140707****Date:15-12-2022****Subject Name:Computer Organization & Architecture****Time:10:30 AM TO 01:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) Draw the block diagram of 4-bit combinational circuit shifter.	03
	(b) Construct diagram of common bus system of four 4-bits registers with diagram.	04
	(c) What is the role of sequence counter(SC) in control unit? Interpret its concept with the help of its three inputs using diagram.	07
Q.2	(a) List out names of eight main registers of basic computer with their symbolic name and purpose.	03
	(b) Summarize following addressing modes with example. 1) Implied mode 2) Register mode	04
	(c) Which are the different phases of Instruction Cycle? Describe Register transfer for fetch phase with its diagram.	07
	OR	
(c) Define: microinstruction; Identify different types of 16 bits instruction formats for basic computer using figure.	07	
Q.3	(a) Use BSA and BUN instruction with example and diagram.	03
	(b) Criticize Three-Address Instructions and Zero address instruction with common example.	04
	(c) Describe how control unit determine instruction type after the decoding using flowchart for instruction cycle.	07
OR		
Q.3	(a) Prepare flowchart of CPU-IOP communication.	03
	(b) Differentiate RISC and CISC architecture.	04
	(c) What is cache memory? Interpret direct addressing mapping with diagram.	07
Q.4	(a) Draw and criticize memory hierarchy in a computer system.	03
	(b) Write an Assembly level program for addition of 50 numbers.	04
	(c) Draw the flowchart of first pass of the assembler and explain working of the same.	07
OR		
Q.4	(a) Interpret the following instructions: INP, ISZ and LDA.	03
	(b) Write an Assembly level program to move one block of data to another location.	04
	(c) List out modes of transfer. Formulate direct memory access technique in detail.	07
Q.5	(a) Summarize major hazards in pipelined execution.	03

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G Thomas



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1. This book is structured into several chapters, namely:
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 - Chapter 2: Essential Elements of Gtu Question Paper Of Cpt With Answer
 - Chapter 3: Gtu Question Paper Of Cpt With Answer in Everyday Life
 - Chapter 4: Gtu Question Paper Of Cpt With Answer in Specific Contexts
 - Chapter 5: Conclusion
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