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Total Pages: 6

2063

Second Year (T.D.C.) Science Examination, 2018

COMPUTER SCIENCE

(Computer Organization) Paper-III

Time Allowed: Three Hours

Maximum Marks: 50

PART-A

Marks: 10

Answer all questions (50 words each).

All questions carry equal marks.

PART - B [Marks: 25

Answer five questions (250 words each).

Selecting one from each unit. All questions carry equal marks.

PART-C

[Marks: 15

Answer any two questions (300 words each).

All questions carry equal marks.

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P.T.O.

PART-A

- 1. (i) Define indirect address.
 - (ii) What is mean by buffer?
 - (iii) Define stack.
 - (iv) What is interrupts?
 - (v) Define signed magnitude data.
 - (vi) What is handshaking?
 - (vii) Which is a non-volatile memory?
 - (viii) Define seek time.
 - (ix) What is an assembler?
 - (x) Define interfacing.

PART-B

UNIT-I

2.	Explain	memory	reference	instructions.		5
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OR

Discuss binary	adder	and	three	state	bus	buffers.	5
							2

UNIT - II

3.	Briefly	explain	arithmetic	and	instruction	pipelines.	5
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OR

Write a note	on	general	register	organization.	5
	-	Scricial	register	organization.	5

UNIT - III

4. Explain multiplication algorithm for signed magnitude data.

5

OR

	Explain the following:	
	(i) Interrupt initiated I/O	
	(ii) Asynchronous serial transfer 2+2	.5=5
	UNIT - IV	
5.	Write a note on memory organization.	5
	OR	
	Explain cache memory.	5
	UNIT - V	
6.	Explain addressing modes for 8085.	5
	OR standagum becare to multipuls noticologistica sidep	
	Write a note on 8085 assembly instructions.	5

PART-C

UNIT-I

- 7. (a) Discuss register transfer and micro operations.
 - What is instruction cycle? Explain. 5+2.5

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- 8. Write short notes on:
 - Software and hardware interrupts (i)
 - Logical and shift instructions (ii)

2.5 + 5

UNIT - III

- 9. Explain the following:
 - (i) Division algorithm

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5

P.T.O.

(ii)	DMA transfer	

4.5+3

UNIT - IV

10. Explain virtual memory.

7.5

UNIT - V

11. Explain 8085 assembly language programming with examples.7.5