Rol1	No.		
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Total No. of Questions: 11]

[Total No. of Printed Pages : 3

BPP-1090

M.Sc. (Previous) Examination, 2022 COMPUTER SCIENCE

Paper MCS - 101

(Computer Organization)

Time: 3 Hours] [Maximum Marks: 50

Section-A (Marks: $2 \times 10 = 20$)

Note: Answer all ten questions (Answer limit 50 words). Each question carries2 marks.

Section–B (Marks : $3 \times 5 = 15$)

Note: Answer all five questions. Each question has internal choice (Answer limit200 words). Each question carries 3 marks.

Section–C (Marks: $5 \times 3 = 15$)

Note:— Answer any *three* questions out of five (Answer limit **500** words). Each question carries **5** marks.

Section-A

- 1. (i) Define Processor.
 - (ii) What is Hardware-Software Interaction?

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	(iv)	What is the use of D flip-flop?
	(v)	What is Priority Interrupt ?
	(vi)	Define I/O Interface.
	(vii)	Define EPROM.
	(viii)	What is Associative Memory ?
	(ix)	What is the use of Data Bus ?
	(x)	What is OP Code ?
		Section-B
2.	Write	the following Number System Conversions:
	(i)	$(11100011110)_2 \rightarrow (?)_8$
	(ii)	$(4734)_8 \to (?)_{10}$
	(iii)	$(2D9E)_{16} \rightarrow (?)_2$
		Or
	Expla	nin Binary Addition with example.
3.	Expla	ain the difference between SR and JK flip-flop.
		Or
	What	is sum of product in k-map?
4.	Expla	ain Asynchronous Data Transfer.
		Or
	Expla	nin DMA.
5.	Descr	ribe Cache Memory.
		Or
	Expla	nin Virtual Memory Mapping.
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(iii)

Define the use of Half Adder.

6. Draw Pin Diagram of 8085.

Or

Explain Addressing Modes.

Section-C

- 7. Explain the role of 2's complement in binary subtraction with example.
- 8. Explain ripple counter with diagram.
- 9. Explain modes of data transfer.
- 10. Describe memory hierarchy in detail.
- 11. Explain register set in detail.