# COPYRIGHT RESERVED Voc(Sem-II) — BCA (CC -4)

# 2023

Time: 3 hours

Full Marks: 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from all the Parts as directed.

#### Part - A

## (Objective Type Questions)

1. Choose the correct answer of the following:

 $1 \times 5 = 5$ 

- (a) Multiplexer is also known as:
  - (i) DEMUX
  - (ii) MUX
  - (iii) D/Aconverter
  - (iv) None of these

NT - 15/3

(Turn over)

(b)	EIS	A stands for :
	(i)	Extended Industry Standard Architecture
	(ii)	Extention Industry Standard Architecture
	(iii)	Extended Indian Standard Architecture
	(iv)	None of these
(c)	Wh	ich Bus is unidirectional?
	(i)	Address Bus
	(ii)	Data Bus
	(iii)	Control Bus
	(iv)	None of these
(d)	Flag	gs is a two Bistable state :
**************************************	(i)	Set or Reset
	(ii)	Test or Retest
	(iii)	Reset or Reset
	(iv)	None of these
(e)	In G	PR, total number of Pair of-Registers :
	(i)	3
	(ii)	4
	(iii)	2
	(iv)	None of these
NT – 15	/3	(2) Contd.

Filli	in the blanks with appropriate answer: $1 \times 5 = 5$
(a)	MAR stands for
4.	LLP is also known as
(c)	In 8086 Microprocessor, Data Bus is
(d)	DMA stands for
(0)	Microprocessor is classified into
(e)	categories.
	Part - B
	(Short-answer Type Questions)
Ar	nswer any four questions of the following:  5×4 = 20
10	Explain the Bus System.
). (ą	Tirk meticate between Pipelining and Parallel
(D	processing.
	Tambin the Multiplexer with diagram.
(¢	Differentiate between Half Adder and Full
(6	Adder with diagram.
	Adder with diagram
(6	What is Computer Registers?  Differentiate between DX and SX of 80486
(1	
	Microprocessor.
NT-	15/3 (3) (Turn over)

### Part - C

#### (Long-answer Type Questions)

Answer any four questions of the following:

 $10 \times 4 = 40$ 

- 4. (a) What is Stack Organisation? Explain the types of stack in stack organisation.
  - (b) Describe the DMA Data transfer technique.
  - (c) Describe the Microprocessor of Architecture and Organisation of the any microprocessor.
  - (d) Explain the Microprogrammed control in computer system architecture.
  - (e) Explain the Instruction Formats and Instruction Set in CSA.
  - (f) Explain the following:
    - (i) Ports
    - (ii) PIC
    - (iii) Associative memory
    - (iv) 80486

