## COPYRIGHT RESERVED PUBV(S-I) - BCA (CC - 1)

## 2023

Time: 3 hours

Full Marks: 70

Pass Marks: 32

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 Sections as directed.

## Section – A (Compulsory)

(Objective Type Questions)

Choose the correct option of the following :

 $1 \times 5 = 5$ 

- (a) Which of the following is Input Scanner?
  - (i) MICR
  - (ii) Keyword

XE - 10/3

(Turn over)

(iii)	Mouse
(iv)	None of these
(b) Wh	ich of the following is 1's complements of
(10	00) <sub>2</sub> = ?
(i)	0001
(ii)	01000
(iii)	0111
(iv)	None of these
(c) Wh	ich of the following is a Heart of the
	nputer?
(i)	CPU
(ii)	MPU
(iii)	Both (i) and (ii)
(iv)	None of these
(d) 8 bit	t is equal to
(i)	1 Byte
	* · ·
	1KB
(iii)	1MB
<u> </u>	None of these
(e) Data	a + processing =? In boundlow
XE - 10/3	(2) Contd.

2.		blanks of the followin			
	(b) Base of Hexadecimal number is				
	(c) 4 Bit is equal to				
		ology is also known a			
	(e) NOT	+AND = MAHO			
	0	Section - B			
	(Sho	ort-answer Type Qu	iestions)		
		any four questions of			
3.	Evolaint	he type's of compute	r with diagram.		
	OR Cata with truth				
<b>.4</b> .	What is table.	Gate ? Explain the C	OR Gate with truth		
5.	Explain the main application of Internt.				
<b>\$</b> .	Differentiate between LAN and WAN.				
7.	Solve the following:				
	(a) (35)	) <sub>10</sub> = (?)2			
	(b) Sub	otruct 4 from 8 using 2	2's complements		
8	t Harrison				
	(a) Bus	;			
	(b) Mul	tiuser			
	•	titasking			
v	. ,	(3)	(Tum over)		
- Al	E – 10/3	( - /			

## Section – C (Long-answer Type Questions)

Answer any four questions of the following:

 $10 \times 4 = 40$ 

- 9. Solve the following:
  - (a)  $(AB5)_{16} = (?)_8$
  - (b)  $(254)_8 = (?)_{10}$
  - (c)  $(1010.1010)_2 = (?)_{10}$
  - (d) Add 5 and 5 using 2's complements.
- Prove that using De Morgan's law of NAND Gate and NOR Gate is a Universal Gate.
- 11. What is Printer? Explain the types of Printer with example.
- What is Memory? Explain the classification of Memory.
- 13. Prove the using circuit diagram of XOR Gate  $Y = \overline{AB} + A\overline{B}$ .
- 14. What is Networking ? Explain the advantages of Networking.