Total No. of printed pages = 4

BCA 171101

	11.	17				
20/	IXI	1	N	G.1.	W	
	IU	1 Cu	y	-		

77	-	-			
Koll	No.	of	cand	lid	ate

	Contract of the last of the la	
		STREET, SQUARE,
	 1	
30	1000	

2018

B.C.A. 1st Semester End-Term Examination

COMPUTER FUNDAMENTALS AND ICT HARDWARE

Full Marks - 70

Time - Three hours

The figures in the margin indicate full marks for the questions.

Answer Q. No. 1 and any four from the rest.

1. Choose the correct option.

- $(10 \times 1 = 10)$
- (i) Which of the following is known as primary memory of a computer?
 - (a) RAM
 - (b) ROM
 - (c) Cache Memory
 - (d) None of the above
- (ii) A byte contains
 - (a) 8 bits
 - (b) 4 bits
 - (c) 16 bits
 - (d) 32 bits

- (iii) Grey code is also known as
 - (a) Reflected Code
 - (b) BCD Code.
 - (c) Binary code
 - (d) None of the above
- (iv) Which of the following memory store instructions that are required to start the computer?
 - (a) ROM
 - (b) RAM
 - (c) Both (a) and (b)
 - (d) None of the above
- (v) The first generation computer is based on
 - (a) Vacuum tubes
 - (b) Transistor
 - (c) Integrated circuit
 - (d) Microprocessor
- (vi) 1 Terabyte is equal to
 - (a) 1024 Gigabytes
 - (b) 1024 Kilobytes
 - (c) 1024 bytes
 - (d) None of the above
- (vii) Which of the following memory is the fastest?
 - (a) Main Memory
 - (b) Secondary Memory
 - (c) Cache Memory
 - (d) None of the above

(viii) ASCII stands for Library, G.I.M.T.

- American Standard Code Information (a) Interchange
- American Scientific Code Information (b) Interchange
- American Standard Code Interchanging (c) Information
- None of the above (d)
- EBCDIC uses (ix)
 - (a) 7 bits
 - (b) 8 bits
 - (c) 16 bits
 - (d) 32 bits
- Which of the following memory store data (X) permanently?
 - (a) Hard disk
 - (b) DVD
 - (c) Both (a) and (b)
 - (d) None of the above
- 2. What is a computer? What are the advantages (a) of using a computer? Mention some application of computer. (2+3=5)
 - Explain why CPU is known as the brain of (b) computer. (5)
 - What is computer memory? What are (c) the different types of computer memory? (5)
- 3. Find 2's complement of the following binary (a) number (2)1000 100
 - (b) Convert (306.D)₁₆ to Binary number. (2)

	(0111) ₂ . What is a gray code? Find the grey code of $(0111)_2$.
(0	l) Obtain the 9's complement of 13579. (2)
(€	Use 10's complement to perform M-N with the given numbers. M = 72532 and N = 3250
4. (a) What are the different generations of computer? Give some salient features of each generation. (6)
(b	
(c	
5. (a	What is alphanumeric code? Give two examples. $(3 + 2 = 5)$
(b	
(c)	
	(5)
6. (a)	What is disk clean tip and disk defragmentation? Explain. (5)
(b)	
(c)	
7. (a)	What are the different types of computer? Explain with examples. (5)
(b)	2000 - 1200 - 1200 - 1200 - 1200 - 1200 - 1200 - 1200 - 1200 - 1200 - 1200 - 1200 - 1200 - 1200 - 1200 - 1200 -
(c)	<u> </u>