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# C.U.SHAH UNIVERSITY Summer Examination - 2019 

## Subject Name: Computer Basics \& Organization Subject Code: 4CS01ICO2

Branch: B.Sc.IT.
Semester: 1
Date: 16/03/2019
Time: 02:30 To 05:30
Marks: 70
Instructions:
(1) Use of Programmable calculator \& any other electronic instrument is prohibited.
(2) Instructions written on main answer book are strictly to be obeyed.
(3) Draw neat diagrams and figures (if necessary) at right places.
(4) Assume suitable data if needed.

## Q-1 Attempt the following questions:

a) Convert the binary number to decimal: $(1011)_{2}$
(a) 11
(b) 35
(c) 15
(d) 10
b) The 1 's complement of 10011101 is $\qquad$ .
(a) 01100010
(b) 10011110
(c) 01100001
(d) 01100011
c) The 2 's complement of 11100111 is $\qquad$ .
(a) 11100110
(b) 00011001
(c) 00011000
(d) 00011010
d) $\qquad$ is an input device used to read a printed text.
(a) OMR
(b) OCR
(c) MICR
(d) BCR
e) CRT stands for $\qquad$
f) Define term: Byte.
g) List out types of number system.
h) DVD stands for $\qquad$ .
i) PROM stands for $\qquad$ .
j) List out types of impact printers.
k) Define term: interpreter.
I) What is multiprogramming operating system?
m) Give full form of ASCII.
n) USB stands for $\qquad$ .

## Attempt any four questions from $\mathbf{Q}-2$ to $\mathbf{Q - 8}$

Q-2 Attempt all questions:
(1) Explain block diagram of computer.
(2) Describe about characteristics of computer.
(3) List advantages and disadvantages of computer.

## Q-3 <br> Attempt all questions:

(1) List out types of computer. Explain any one of them.
(2) What is bus? Explain types of bus.
(3) Write short note: fourth generation computer.

## Q-4 Attempt all questions:

(1) Explain: Scanner device.
(2) Describe about laser printer and inkjet printer.
(3) Write short note: MICR

## Q-5 Attempt all questions:

(1) Explain display device: LED and LCD.
(2) Differentiate between RAM and ROM.
(3) Write a short note: Magnetic disk.

## Q-6 Attempt all questions:

(1) Explain AND gate, OR gate and NOT gate with truth table.
(2) Describe about Half adder with diagram.

## Q-7 Attempt all questions:

(1) Explain 4 to 1 line multiplexer with diagram.
(2) Describe about multiprocessor operating system.
(3) Write a short note on: Wi-fi.

Q-8 Attempt all questions:
(1) Explain: Simple duplex, Half duplex and Full duplex.
(2) Describe stack organization.
(3) Write short note: compiler.

