

Enrollment No: _____ Exam Seat No: _____

C.U.SHAH UNIVERSITY
Summer Examination-2018

Subject Name : Digital Electronics

Subject Code : 4CS02DEC1

Branch: M.Sc. C.A. & I.T. (Integrated)

Semester : 2

Date : 27/04/2018

Time : 10:30 To 01:30

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:	(14)
	a) What is the Full Form of RAM (a) Random Access Memory (b)Read Only Memory	1
	b) What is the Full Form of BCD (a) Binary Coded Decimal (b) Binary Conversion Decimal (C)None of These	1
	c) Draw the Digital and analog Signal.	1
	d) Which one is type of Scanner? (a) ADR (B) MDR (C) OMR (d) None of these	1
	e) In Bollean algebra $A+A' =$ _____	1
	f) In Bollean algebra $A.A' =$ _____	1
	g) If $A=1$ and $B=0$, in Bollean Alebra $(AB)' =$ _____	1
	h) What is gate?	1
	i) Which two values are binary values?	1
	j) What is the Carry Circuit in Half Adder?	1
	k) What is the Sum Circuit in Half Adder?	1
	l) What is Subtractor?	1
	m) Which two basic inputs are there in Half Subtractor	1
	n) Which two basic outputs are there in Half Subtractor	1

Attempt any four questions from Q-2 to Q-8

Q-2	Attempt all questions	(14)
(A)	Write a brief note on Half Adder with diagram.	7
(B)	Write a brief note on Half Subtractor with diagram.	7
Q-3	Attempt all questions	(14)
(A)	What is Decoder? Explain Decoder with necessary diagram	10
(B)	Compare RAM and ROM.	04
Q-4	Attempt all questions	(14)
(A)	What is Computer? Explain the Block Diagram of Digital Computer.	7



	(B)	Write a brief note on Memory.	7
Q-5		Attempt all questions	(14)
	(A)	Draw the Circuit Diagram of Full Subtractor	7
	(B)	Draw the Circuit Diagram of Full Adder	7
Q-6		Attempt all questions	(14)
	(A)	What is Multiplexer? Explain with diagram.	7
	(B)	What is perfect induction method? Explain with suitable example.	7
Q-7			(14)
	(A)	Enlist the types of printers. Explain any one in brief.	7
	(B)	Enlist the types of Scanners. Explain any one in brief.	7
Q-8			(14)
	(A)	Explain demultiplexer in brief.	7
	(B)	Differentiate between <i>Hardware and software</i>	7

