END TERM EXAMINATION

FIRST SEMESTER [BCA] DECEMBER-2015

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_		:: BCA 107 Subject: Introduction to Computers and IT
	: 3 H	The state of the s
Not	e: Atte	empt any five questions including Q.No. 1 which is compulsory. Select one question from each unit.
Q1.	Answ	er the following in brief:- (2.5x10=25)
	al	Mainframe computes
0	by	ROM
	e) d)	Services of Internet Compiler v/s Interpreter
0	e	Data Transmission Modes
1	f	Parallel Computers
1	g	Flow Chart
P	h	IP Address
-	1	IP Address
1	اللا	Unit-I 2
02	Expla	ain briefly the key hardware and software technologies used in building
	-	puter of each of the five generations. (12.5)
Q3.	a)	Define Memory. Explain different types of memory used in computers.(6.5)
	b)	Draw and explain the block diagram of computer. (6)
	8	Unit-II
Q4.	a)	Define Operating System. Discuss the various functions of Operating
		System. (6.5)
	b)	Write an algorithm for calculating greatest number among given 'n' numbers.
05	-1	
Q5.	al	Discuss different types of language used in computers. Differentiate between assemblers and compilers. (6.5)
	b)	Write steps for creating a power point presentation on topic of your
	-,	choice. (6)
0.7	132	Unit-III
Q6.	a)	Perform the following: (2x5=10)
		i) (100001011) ₂ =() ₁₀ — ii) Represent -20 using Signed 1's and 2's compliment
		iii) Perform the subtraction for: 11100011-1111
		iv) $(192.625)_{10} = ()_8$
		v) 11101100 (Gray to Binary)
	b)	Write short notes on UniCode. (2.5)
Q7.	a)	Perform the following: (7.5)
		i) Add 10111, 11000 and 111
1 6		ii) Find 2's compliment of 100111100
	b)	iii) Binary Subtraction pm 1100, 1010 Write short notes on ASCII and Grey Codes. (5)
	b)	Unit-IV
Q8.	1	Explain briefly the different applications of Internet in education. (5)
1	5 b)	Draw and explain the various Network Topologies and transmission
	b)	media in computer network. (7.5)
Q9.	a)	Explain OSI Model in detail with the help of a labeled diagram. (10)
	b)	Discuss different types of networks with suitable diagrams. (2.5)
	D)	Diodoc different of bear of the control of the cont