BCA Degree Examination SEMESTER -1 COMPUTER FUNDEMENTALS MODEL PAPER

	MODEL PAPER	
Time:	3 Hours Max.Marks: 7	!5
Instructions: Answer any 5 questions Out of 8 in PART-A Answer one question from each unit in PART – B		
	PART-A	
1.	Explain about the parts of a personal computer?	5*5=25
2.	Write a short note on operating system?	
3.	What is the difference between primary memory and secondary memory of a computer system? a examples of secondary memory?	nd list 2
4.	Write down gray code for decimal digits from 0 to 15?	
5.	Convert (98AF) base 16 to base 2 and base 8	
6.	Convert the hexadecimal number (F3A7C2) to binary and octal?	
7.	Explain the different types of computer software?	
8.	State and prove demorgans theorem for 3 variables	
	PART- B	5*10=5
	UNIT-1	
9.	Draw the block diagram of computer system and explain its main components? (OR)	(10)
10.	Explain about different types of input devices, and output devices used in a computer system?	(10)
	UNIT-2	
11	What is meant by storage system and describe the way of storing information in the memory of a system with the help of a diagram?	compute
10	(OR)	
12.	a) Discuss about complements with examples?b) Explain about different types of binary codes with examples?	(5+5)
	UNIT-3	
13.	a) Associative law b) Distributive law over +	(5+5)
	(OR)	
14.	Draw the logic symbol and construct the truth table for each of the following gates a) 2-input NAND gate b) 3-input OR gate c) 2-input EX-OR gate d) 3-input EX-OR gate e) NOT gate	(10)
	UNIT-4	
15.	 a) Explain about why NAND and NOR gates are known as universal gates? b) Give the Boolean expression for each of the following gates AND,NOR,EX-OR,OR,NOT (OR) 	(5+5)
16.	a) Explain about different types of computer software?b) Explain in detail about different generations of computer?	(5+5)
	UNIT-5	
17.	a) Write an algorithm to find the biggest of 3 numbersb) List out some popular high level languages and explain in detail any three of them?	(5+5)
18.	Explain briefly the layers of the OSI model ?	(10)

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