(5+5+5)

First Semester B.C.A. Degree Examinations October / November 2018 (2016-17 - Syllabus)

BCA 420: COMPUTER FUNDAMENTALS

Tim	e : 3	8 Hours Max.	Marks: 80	
I.	Ans	nswer all the questions.	5X1=5	
1. 2.	ASO	What is a Computer ? ASCII stands for		
3.		Define software.		
4.		What is an operating system?		
5.	Wh	hat is a computer network.		
II. Answer any FIVE full questions.			5X15=75	
1.	a)	Briefly describe generations of computer.		
	b)	With a neat block diagram, explain the functional units of a comput	er.	
	c)	Explain Information Processing Cycle (IPC).	(5+6+4)	
2.	a)	With a neat labelled diagram, explain the layout of the keyboard.		
	b)	List any four input devices. Explain the working of mouse.		
	c)	What is a monitor? Explain various types of monitor.	(6+4+5)	
3.	a)	What is a Printer? Explain the working of dotmatrix printer.		
	b)	Write a note on text codes.		
	c)	With a neat diagram, explain the working of hard disk.	(5+4+6)	
4.	a)	a) What is a programming language? Explain the classification of programming languages.		
	b)	List the functions of operating system. Explain any three of them.		
	c)	What is GUI? Explain any four components of GUI.	(5+5+5)	
5.	a)	Mention the steps involved in problem solving technique. Explain a them.	ny three of	
	b)	What is an algorithm? Explain the characteristics and notations of ar	algorithm.	
	c)	What is flowchart? Explain various symbols used in a flowchart.	(5+5+5)	
6.	a)	Write an algorithm and a flowchart to calculate simple interest and interest.	compound	
	b)	Write an algorithm and a flow-chart to perform arithmetic operation	S.	
	c)	Write an algorithm and a flowchart to find the reverse of a number.	(5+5+5)	

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What is network topology? Explain any four types of network topology. What is an internet? Mention the applications of internet. Explain any one.

Explain LAN, MAN and WAN.

7.

a)

c)