Roll	No.	***********
------	-----	-------------

Total Pages: 4

204101

December, 2019 BCA- 1 SEMESTER

Computer & Programming Fundamentals (BCA-17-101)

Time: 3 Hours] [Max. Marks: 75

Instructions:

- 1. It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.
- 2. Answer any four questions from Part-B in detail.
- 3. Different sub-parts of a question are to be attempted adjacent to each other.

PART - A

- 1. (a) Give the full form of the following:

 USB, VGA, ASCII. (1.5)
 - (b) A sine wave completes one cycle in 50 micro seconds.

 What is its frequency? (1.5)
 - (c) What are various types of errors occurred while programming? (1.5)
 - (d) What is the modular approach of programming? (1.5)

204101/260/111/202

[P.T.O.

(2)	What is the difference between Algorithm	n and	4.	(a)	Draw a flow chart to find out the largest number out			
(e)	Flow Chart?	(1.5)			of given three numbers. (6)			
(f)	and incomplications of Computer			(b)	Differentiate between the following:			
	System?	(1.5)			(i) Application Software & System Software.			
(g)	Differentiate between Problem Oriented & Pro	cedure			(ii) Single user operating system vs. Multiuser			
	Oriented languages.	(1.5)			operating System. (4)			
(h)	What is the difference between primary memo	-	(c)	What is Computer Virus? What are different types of				
	secondary memory?	(1.5)		(-)	viruses? (5)			
(i)	What are various applications of Internet?	(1.5)						
(j)	Differentiate between LAN, MAN, WAN.	(1.5)	5.	(a)	Draw a flow chart to print N terms of Fibonacci			
	PART - B				SCIICS.			
2. (a) Draw the block diagram of Computer S	System		(b)	Write an explanatory note on programming			
	explaining various functional components of				languages. (5)			
(1	(b) Give the classification of computer systems. (4)			(c)				
	c) What are the characteristics of Computer Syste	m? (3)			of an algorithm? (5)			
3.	(a) Define an Operating System? What are	various	6.	(a)	Define the following:			
	functions performed by an operating system?				(i) Assembler			
	(b) Write an algorithm to measure 4 litres of wat				(ii) Compiler			
	only 3 litres and 5 litres jugs are available?	(4)			(iii) Interpreter			
	(c) Explain the following:				(iy) Linker			
	Multiprogramming, Multitasking, Multiproces	ssing.			(5)			
		(3)			(v) Loader.			
204	101/260/111/202 2		204	1101/2	260/111/202 3 [P.T.O.			

--

(b)	What	are	the	attributes	of	a	good	program
	design							(5)

- (c) Define Computer Network? What are the basic components of a data communication system? (5)
- 7. (a) Define the following: Amplitude, Time Period,
 Frequency and Bandwidth? (4)
 - (b) Write an explanatory note on Network Topology. (6)
 - (c) What is data highway? What are various modes of data transmission? (5)