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## R-345-2017

## FACULTY OF COMPUTER SCIENCE

## B.Sc. (First Year) (First Semester) EXAMINATION

APRIL/MAY, 2017

(CBCS Pattern)

COMPUTER SCIENCE

Paper I (BSCIT001)

(Problem Solving Using Computers)

(MCQ & Theory)

Time: 10.00 a.m. to 12.00 noon (Wednesday, 3-5-2017) Time—2 Hours Maximum Marks—40 N.B. : (i)All questions are compulsory. (ii)Draw neat and labelled diagram wherever necessary. (iii)Assume suitable data wherever necessary. MCQ 1. Solve all MCQs given below: 10 (i)..... is used to change value of variable. (b) (a) >(c)< = (d)Factorial of 0 (zero) is ..... (ii)(a) 1 (b) 0 3 (c)(d)11 (iii) 2 3 (a)(b) (d)0 (c) $^{\circ}1$ 

WT				(2)			R-345-2017		
	(iv)	symbol is used in flow chart for							
		(a)	I/O	(	<b>(b)</b>	Loop			
		(c)	End	(	(d)	Condition			
	(v)	Algor							
		(a)	Numbers	999	(b)	Conditions			
		(c)	Instructions		(d)	Loops			
	(vi)	In	•••••	ext r	no. is addition	of previous two			
		numbers.							
		(a)	Array		(b)	Fibonacci	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
		(c)	Prime		(d)	Factorial	999°		
	(vii)	•••••	2 2, 21						
		(a)	Function		<b>(b)</b>	Array	Y		
		(c)	Counting		(d)	Loop			
	(viii)								
		(a)	A[5]		<b>(b)</b>	4			
	\S_2^2	(c)			(d)	A[0]			
	(ix)	is an array order reversal technique.							
		(a)	descending		(b)	ascending			
		(c)	reverse		(d)	factorial			
	(x)	If $n/2$	leaves remainde	er 1, then it is	· · · · · ·	•••••			
		(a)	even	83.30 A	(b)	2			
2000		(c)	odd	SEE	(d)	4			
				Theory					
2.	(a)	What	is array ? Expl	lain types of	arra	y in detail.	10		
	60 61 45	OBOW.		Or					
	(b)	Expla	in input devices	3.			5		
	6(c) 2	Write	an algorithm fo	or hinary son	rch		5		

WT		(3) $R=345-26$	)17						
3.	(a)	Explain TOP down design in detail.	10						
		Or STATE OF THE ST							
	( <i>b</i> )	Write an algorithm for GCD of two integer.	5						
	(c)	Write an algorithm to exchange the value of two variables.	5						
4.	(a)	What is sorting? Explain bubble sort and selection sort in detail.	10						
	( <i>b</i> )	Write short notes on I/O ports.	5						
	(c)	Write an algorithm for finding the square root of number.	5						