This question paper contains 3 printed pages]

## V = 342 = 2017

## FACULTY OF COMPUTER STUDIES

## B.Sc. (First Year) (First Semester) EXAMINATION NOVEMBER/DECEMBER, 2017

(CBCS Pattern)

COMPUTER SCIENCE

Paper I

(Problem Solving using Computers)

(MCQ + Theory)

(Tuesday, 12-12-2017) Time: 10.00 a.m. to 12.00 noon

Time—2 Hours Maximum Marks—40

N.B. := (i) All questions are compulsory.

(C)

Flow

- (ii) Draw neat and labelled diagram wherever necessary.
- (iii) Assume suitable data wherever necessary.

## MCQ

1. Solve all MCQ given below: The summation of 1 to N is calculated as ................. (1) 1 - 2 - 3 ...... N (B)  $1 + 2 + 3 \dots N$ 1 + 2 - 3 + ...... N (C)  $1 - 2 - 3 + \dots + N$ (D) (2)Float value is also called ..... value. (A) (B) fact real (C) int (D) char (3) The set of instruction is ....... (A) Program (B) Logic

P.T.O.

10

(D)

Connector

WT				(2)	S. D. C. C. C. C.	V—342-	-2017	
	(4)	Fact	orial of 4 (4!) =					
		(A)	4	(B)				
		(C)	24	(D)	1		ELIZA S	
	(5)	Algo	rithm is a set of			7 6 6		
		(A)	Numbers	(B)	Digits			
		(C)	Loops	(D)	Instructions			
	(6)	The	largest divisor o	f prime number	is		202	
		(A)	Zero	(B)	<b>4</b>			
		(C)	Itself	(D)	One			
	(7)		is a not equ	ual operator.				
		(A)	< > \$ \$ \$ \$ \$ \$ \$	(B)		S. E.		
		(C)	:= 4777	(D)				
	(8)	Picto	orial representati	is				
		(A)	Image	(B)	Flowchart			
		(C)	Movie	(D)	Picture			
	(9)	Array is collection of data type elements.						
		(A)	differt	(B)	int			
		(C)	float	(D)	same			
16 T	(10)	Squa	are of 12 is					
		(A)	144	(B)	134			
200		(C)	164	(D)	21			
				Theory				
2.	(a)	Wha	t is flowchart?	lowchart.	10			
				Or				
	(b)	Expl	ain top down de	esign.			5	
	(c)	Expl	ain I/O ports.				5	

WT		(3) $V-342-2$	2017			
3.	(a)	What is Computer? Explain input and output devices of compute	r in			
		detail.	10			
		Or SEEDS SEEDS	A A			
	( <i>b</i> )	Write the algorithm for binary search.	5			
	(c)	Write the algorithm to counting numbers.	5			
4.	(a)	What is array? Explain memory representation of array in detail.				
	( <i>b</i> )	Write the algorithm on GCD of two numbers.	5			
	(c)	Write the algorithm on summation of set of numbers.	5			