This question paper contains 3 printed pages]

Y-455-2019

FACULTY OF SCIENCE AND TECHNOLOGY

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

NOVEMBER/DECEMBER, 2019

(CBCS Pattern)

COMPUTER SCIENCE

(Problem Solving Using Computer—I)

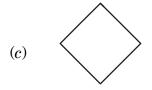
(MCQ + Theory)

(Thursday, 12-12-2019) Time— Two Hours					Time: 10.00 a.m. to 12.00 noon		
					Maximum Marks—10+30=40		
N.B. := (i) Attempt All questions.					1		
	((ii) A	ssume suitable data,	if necessa	ary.		
				MCQ)			
1.	Attempt the following MCQs:				10		
	(i)	CPU	stands for				
	129	(a)	centrilined processir	ng unit			
S	26°0'	(b)	central processing u	init	365		
3000		(c)	control processing u	nit			
5 6 6 6	3000 0000 0000	(d)	none of the above	13 30 CC			
20 6 10 10 10 10 10 10 10 10 10 10 10 10 10	(ii)	80 CO V4	is an output u	nit.			
	90 90 V	(a)	Printer	(<i>b</i>)	Keyboard		
		(c)	CPU	(d)	None of these		
	(iii)	Sym	bolic representation of	algorith	m is called		
		(a)	program	(<i>b</i>)	flow chart		
			oranh	(d)	none of these		

(iv)is an input/output symbol.









(v) The factorial of 0 is.....

(*a*) 0

(b) ∞

(c) 1

(d) None of these

(vi) Complete the following series:

0, 1, 1, 2, 3, 5......13, 21.

(a) 4

(b) 7

(c) 8

(d) 9

(vii) In array order receptal algorithm, Ist element will be exchanged with.....element.

 $(a) \qquad n + i - 1$

 $(b) \qquad n-1+i$

(c) n - i - 1

 $(d) \qquad n-i+1$

(viii) Factorial of 7 is

(a) 5040

(b) 4050

(c) 4000

(d) 5400

(ix) The preliminary investigation may be though of as the.....

- (a) Problem depreciation phase
- (b) Creating started on a problem
- (c) Use of specific example
- (d) Similarity among problem

WT				(3)		Y-455-2	019	
	(x)		is a set	of explicit	t and un	ambiguous inst	ruction expres	$\operatorname{\mathbf{sed}}$	
		in programming language.							
		(a)	Problem		(b)	Algorithm		3,00 3,00	
		(c)	Program		(d)	Flow chart		3000	
				(Theo	ry)			900	
2.	(a)	Draw and explain block diagram of computer.						5	
	(<i>b</i>)	Writ	Write an algorithm to exchange the value of two variables.						
			Š	Or	16 C C C C C C C C C C C C C C C C C C C				
	(c)	Explain any two output devices.						5	
	(d)	Disc	cuss the analysis	of algori	thm.		400 A	5	
3.	(a)	What is flow-chart? Explain different symbols used in flow-chart.						t. 5	
	(b)	Write an algorithm to print N terms of Fibonacci series.						5	
		30		Or					
	(c)	Write an algorithm to check if a given number is prime or not.						5	
	(d)	Writ	te an algorithm	for Array	counti	ng.		5	
4.	(a)	Expl	lain with suitab	le exampl	e Linea	r search metho	od.	10	
6.0				Or	G B BB				
2 (P) C	(b)	Expl	lain Bubble sort	in detail	abra 2			10	