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V-354-2017

FACULTY OF SCIENCE

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

COMPUTER SCIENCE

(Foundation of Computer Programming)

	(MCQ +	Theory				1,21
Thursday, 14-12-2017)		Time: 10.00 a.m. to 12.00 noon				
Time—2 Hours			7 7 6 6	Maximi	ım Mark:	s—40
V.B. :— (i) All que	estions carry equa	l marks				
(ii) Assum	e suitable data if	necessa	ıry.		86	
	MC	Q				10
1. Select the correc	t alternative for th	e follow	ving:			
(1)	symbol is used fo	r input.				
(A)		(B)				
(C)		(D)				
(2) The number.	er which is divisil	ole by o	one or	itself only	is	•••••
(A) ever		(B)	odd			
(C) prin	ie	(D)	none	of these		
(3) Collection	of elements which	h are h	aving	same data	type is o	called
as						
(A) Arr	ay	(B)	GCD			
(C) LC1		(D)	None	of these		

P.T.O.

WT (3) V-354-2017

Theory

2. (a) Explain top down design in detail.

(b) Write an algorithm for exchanging values of two variables.

Or

(c) What is array? How is array represented in memory?

(d) Write an algorithm to find smallest element from array.

3. (a) What is flow chart? Explain principles of flow chart.

(b) Write algorithm to generate fibonacci number.

Or

(c) Explain linear search technique in detail.

(d) Explain with example how algorithm is converted in flowchart.

4. (a) What do you mean by efficiency of algorithm?

(b) Write an algorithm to find square root of number.

Or

(c) Explain selection sort technique in detail.

(d) Write an algorithm for character to number conversion.