This question paper contains 3 printed pages]

AO-345-2018

FACULTY OF SCIENCE

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

MARCH/APRIL, 2018

(CBCS Pattern)

COMPUTER SCIENCE

Paper IV

(Analysis of Algorithm and Data Structure)

(MCQ+Theory)

(Friday	y, 27-	4-20	18)		Time: 10.00 a.m. to 12.00 noon Maximum Marks—40			
Time-	-2 <i>H</i>	ours						
N.B. :-	— (<i>i</i>	·) A	Attempt <i>all</i> questions.		497994 1798, 445			
	(ii) <i>[</i>	Assume suitable data	if necessar	y : 5			
	(iii) (Î	Figures to the right in	ndicate full	marks.			
		(2)		MCQ)				
1. (Choose the <i>correct</i> answer:				10			
(1)	Data	ta items that are divided into subitems are called					
	5000	(a)	Elementary items	(<i>b</i>)	Group items			
		(c)	Field	(d)	Record			
	2)	The logical or mathematical model of a particular organiza						
		is ca	ılled					
3000		(a)	Record	(<i>b</i>)	Data structure			
(8) 11 0 C	800 E	(c)	Entity set	(<i>d</i>)	Information			
	3)	Com	sorted files into a single sorted					
		file						
77799		(a)	Traversing	(<i>b</i>)	Inserfing			
8000	750	(c)	Merging	(<i>d</i>)	Searching			

P.T.O.

WT			(2))	AO—345—2018			
	(4)	If linked list has no hodes, then list is called						
		(a)	Simple list	(b)	Header list			
		(<i>c</i>)	Rounded list	(d)	Empty list			
	(5)	STACK is also called list.						
		(a)	FILO	(<i>b</i>)	FIFO			
		(<i>c</i>)	LIFO	(<i>d</i>)	LÍLO			
	(6)	QUEUE is also calledlist.						
		(a)	LIFO	(<i>b</i>)	FIFO			
		(<i>c</i>)	FOFI	(d)	LIFO			
	(7)		is a non-linear type	tructure.				
		(a)	Stack	(<i>b</i>)	Queue			
		(c)	Tree	(<i>d</i>)	Linked list			
	(8)	A graph G is said to be connected, if there is a path between any of its nodes.						
	3 N. P.	(a)	Four	(<i>b</i>)	Three			
		(c)	One	(<i>d</i>)	Two			
36,4	(9)	A graph G is said to be labelled, if its edges are assigned						
		(a)	Data	(<i>b</i>)	Information			
		(c)	Value	(<i>d</i>)	None			
	(10)	A path p , of length n from a node u to a node v is defined as a sequence						
		of	nodes.					
VA TO		(a)	<i>n</i> /1	(<i>b</i>)	<i>n</i> *1			
	12/0/0/0	(c)	<i>n</i> -1	(<i>d</i>)	<i>n</i> +1			