FIRST PERIODIC TEST

Subject Name: DAA(BCS-403)

BRANCH- C.S.E MAX. MARKS-15

Note:- Attempt All Questions

(B.E-SEM-IV)

SESSION: 2021-2022

TIME- 1:00 HOUR

Q. No.	SECTION-A	(1×5 =5)	CO	BLOOM TAXONO Y LEVEL
0.1	3)10399	$a_1=4$, $a_n=5$ $n+a_{n+1}$. The value of a_{64} is b)23760	CO1	K4
ens.	c)75100	d)53700		
Q.2.	What is the recurrence relation for 1, 7, 31, 127, 499?		CO1	K2
	b _c =4b _{c.1} +3	b)b _n =4b _n +7! d)b _n =b _{n-1} +1		
Q.3.	If So=4Sout12n, where So=6 and So	=7, find the solution for the recurrence	CO1	K2
	a)an=7(2n)-29/6n6n c)an=6(3n+1)-5n	b)an=6(6n)+6/7n6n d) an=nn-2/6n6n		
0.4.	What is the apaciality about the inordal it traverses in a non increasing order b) it traverses in an increasing order c) it traverses in a random fashion childreness based on priority of the received.		CO2	к1
2.5.	in heap sort, after deleting the last m	intersum element, the array will contain	202	
	The state of the s	The state of the s	CO2	K1
	a) increasing sorting order c) tree inorder	b) decreasing sorting order		
	SECTION-B	d) tree preorder (2.5×2=5)		
1.1.	Consider the following recurrence relation			
	T(n)={T(n/2)+₹(2n/5)+7n if n>0		CO1	K3
.2.	1 Solve using recursive by tree method	if n=0		
:10->	Tions per the following binary search tree T smallest alement in Tip	e ven below: Which pipele contains the fourth	CO1	K3
Oscario Militario di	0			
	C Jwyny	The state of the s	The state of the s	The state of the s
	XZ			
<u> </u>	Explain the reason also			
	SECTION-C	(5*1=5)		
i l	Write algorithm to sorting a list of integer	using heap-sort. Derive the expression for		
ti	ime complexity of heap sort.	the expression for	CO2	KB