	Page
	Tirtorial-4
1863	The state of the s
Am-1)	$a=3$ $f(n)=n^2$
7	623 $f(n) = n^2$ 622 $C = log 3 = 1.58$
	The second of th
	: TC = O(n2)
Au-2)	· a = 4 fm zn2
- In	1 0 2 4 fm 2 n 2 6 2 2 C 2 2
1	
	:- TC = O (n² logn)
Au-3)	622 $f(n)=2^{n}$ 622 $c=log_{2}(=)0$
	622 CZ LOQ, 1=)0
	:. TC = 0 (2")
Ams-4)	cazzn finlznn
	b2 2
	a is not const : we can't find
AM-5)	az16 fin)zn
	524 C2 Log 16 7 2
,	
	:. TC=()(n2)
Am-6)	az 2 f(n) z n logn
110-1- 6)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	12
	: TC 2 O (nlogn)
	2. (C 2 0 (C 4 7 9)

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Ans-\$	$a=2 \qquad fm/2 \qquad n/\log n$ $b=2 \qquad c=2 \qquad \log 2 \qquad 1$
7	b=2 c= c= con 2=1
	:. TC=18(n)
Am-8)	a = 2 f(n) = n o· 51 b = 4 c = . log 2 = 1 0· 50
	b24 (2. log2 z) 0.50
	TC = 0 (n°·51)
1	azo.5 f(n) = 1/h
Ans-9)	6=2 f(n) = 1/h
	a < 1 : haster not applicable
7	
Avs-10)	0 = 16 fin) = n2
- Mrs (-)	6216 f(n) 2 ng 624 C2 Log 16 7 2
	1.7Cz0(n1)
	v
Ans-11)	azy f(m) = logn
1/100 11/	6=2 C= log y =12
	O Z
	:. TC = 0 /n2)
Ans-12)	a= Vn Hn)= legn
	622
	a is not conste : Not applicable
	u m ru w.c.
	Seemed with ComSeemer

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Ans-13')	123 fln/24
	b=2 (2 log 3 =) 1.58
	:. TC = 0 (Rog h 1.58)
AM-14)	$\frac{a^2 3}{b^2 3}$ $\frac{g(n)^2 \sqrt{n}}{c^2 \log_3 2}$
10-	·TC =) O(n)
A-1-15)	a = 4 $f(n) = C - nb = 2$ $c = log = 4 = 1 = 2$
12.0	$TC = O(n^2)$
Ans-16)	$\frac{1}{1} = \frac{1}{1} $ $\frac{1}{1} = \frac{1}{1} = \frac{1}{1} $ $\frac{1}{1} = \frac{1}{1} = \frac$
	TCZO(nlogn)
AM-17)	a = 3 $f(n) = n/2$
	$\frac{5}{5} = 3$ $C = \log 3 = 1$ $T(=) 8 / n$
	:. 12=10/11/
Am-18)	$a = 6$ $f(m) = n^2 \log n$ $6 = 3$ $C = \log 6 = 1.63$
	$O(n^2 \log n)$
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Ans-19	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	:- TC=0(n2)
Ansido	1264 Statz-n2logn 628
	fM) is (-ug : Masters not applicable
Aw-21)	$9 = 7$ $f(n) = n^2$ 6 = 3 $C = log = 7$ $f(n) = 7$
	c. T(=0(n2)
Ary-22)	Not Applicable.