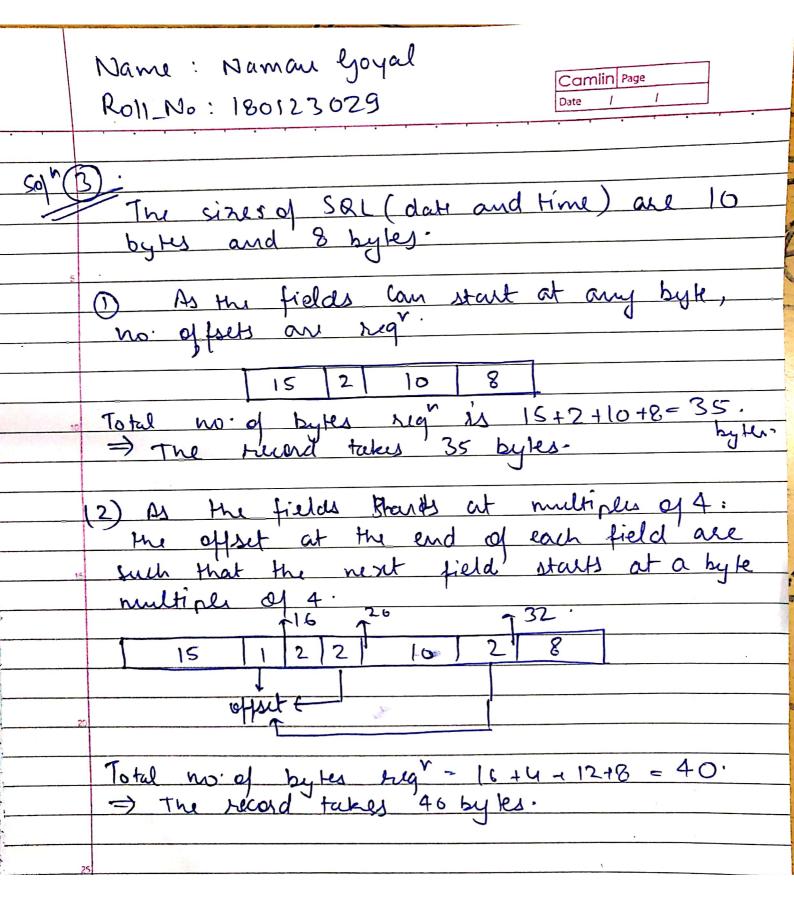
NAME: NAMAN GOMAL Rou No: 180123029. Sof 1) no. Surfaces = 10,000 no. of Frenchs = 10,000 => Total no of Flacks: 10000 × 10 = 10<sup>5</sup>. .no of surfaces = 1000, bytes per sector = 512 =) capacity of aisk = 512 × 1000 × (Total no of tacks) = 512 × 108 Bqks = 512×1084B : 14B= 230 Bytes. = 47.683 GB So, the raparity of disk = 47.638 GB.

	Name: Naman C	joyal	
P .	Roll_No: 1801230	· ·	Camlin Page  Date / /
. 1	MARIN WAR HOLD		alive .
50/1 2	hsing trob-phase multiway mege sort,		
p. 17500 95	Traing Phase Tit me Life our latification		
()	Tuples to be world = 10		
5 5	Capacity of each	block = 16384 ->	No 0 = 16384
		sylve sy	tor black 5132
	34 4	S RAA PARTIO	
	Time seg [ rotat = 10 sev mi = 6 ms.		
	Thus taken = 2x10 x 10/4 Lettery		
10	Transfer time of each = ) I work god		
1	3 Ebleck & MXS		
	Head must cro		31 gaps
	as gap = 20/" De	gree of gap = 26	x 360 = 12
	of subs = 80 x 360 = 288		
15	100		
$\rightarrow$	Total degrees travelled = 72 x 31 + 288 x 32 by are 1000 1000		
	by all	1000	1000
	= 11.448		
20	Transfer time = 11.448 x (0.006) = 0.0001908 Seconds = 0.0190 ms		
$\rightarrow$	Thansfer time = 11	·448 x (0.006)=0	.0001908 Seconds
$\Rightarrow$	Avy. rotational la	teny = 1 (Time of	rotat") = 3 ms.
	5		
25	Aug seek time = Time reg to moval move total		
	- Track		
	= 1 + (0.001) (10000) = 4-34 ac		
		( ) /	,
=) 30	Aug. Laterry = Av = (4.	J SUL TIME T HV	g Kot Laterry +
	= 14.	34+3+ 0:19) == (1	Cause the
		TV15	(1) 2m),



Nam: Naman Goyal Camlin Page Ral-No: 180123029 Sof (a) Upon deletion of records with keys 60,70,80. the first index block will have keys The data revord with 50,60 will have (20,21) (22,23), (24,25), (26,27) (28,29) in signence with second data block. (b) Triserting key I in B-Tree! 14 (5) By lookup providure, hu find that insertion will go to first leaf of 3 hd layer but since n=3, leaf can't have 4-key pointer pairs 1,2,3,5. First me (vicate a num rate 8 may the highest two keys 3,5 along with their pointers to that rate. me linsert a pointes to node (3,5). Then

me must insert a key 3 in leaf with

key 7 in 2nd layer and then insert a

pointed in this leaf which points to leaf

with keys (1,2) in 3rd layer and also

insert a pointer which points to

leaf (3,5) in the 3rd layer and connect all

leaf by last pointed to its right graphical representation: -

Scanned with CamScanner

