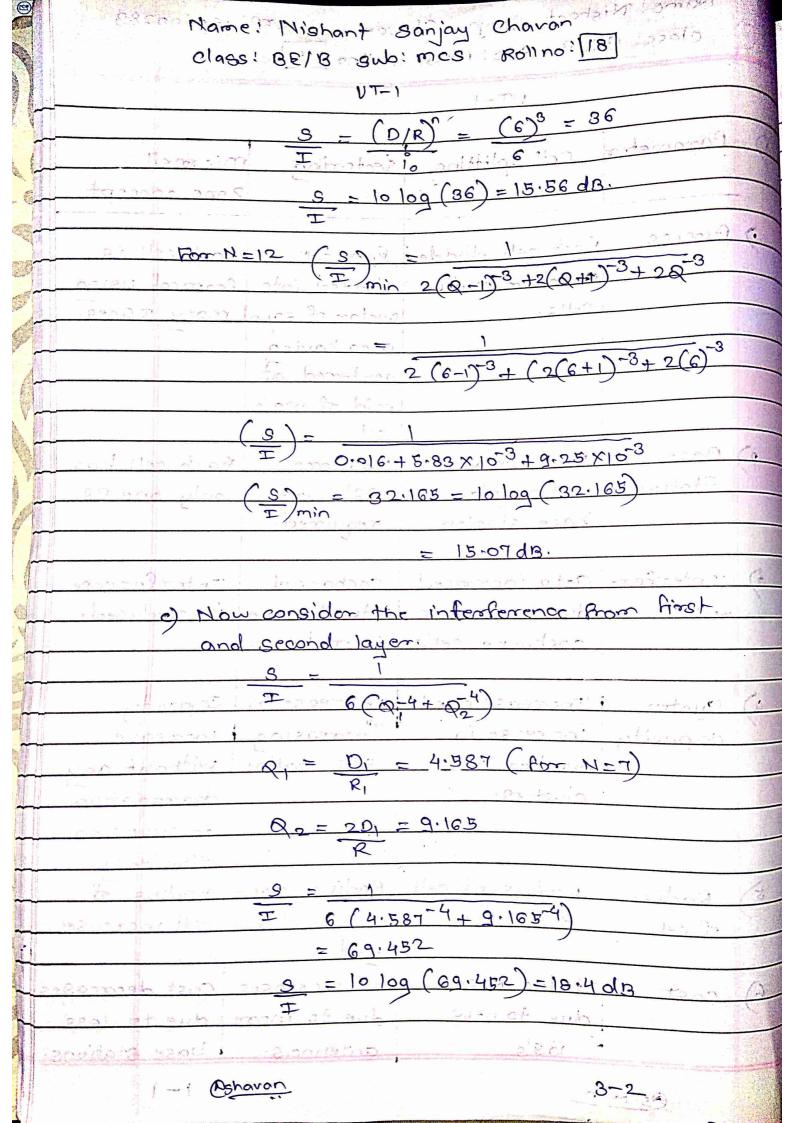
Name: Nishant Sanjay Chavan esp: 180600283
class: BE/B sub: Mcs Rollno 1/18

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98 - 700 . (ava) - 8					
9.1)	Panameter	Cell Splitting	Sectoring	Microcell Zone concept	
)	Process	Each cell divided smaller reading cells.	divided into	fach cell is formed using many zones.	
	E-(2) 2 2 2 7	1+351,577.5			
2)	Base	Each emaller cell require new base station.		Each cell has only one BS.	
3	1 20	acts increased due to meaner cochannel cells.	interference	Interference	
a)	System Capacity	Increase in pumber of	Increasing S/I ratio.	without any	
3	Radius	Radius of cell	Radius opm	degradation in trunking efficiency. Radius of	
	of cell	decreases	ains unchan	\$Y	
6)	cost Esca	due to new	due to more	45	
			Access to the second of the se		

Mame! Nishant Sanjay Chavan terp: 18060,0283
Class: BE/B Sub: mcs Roll no: [18
UT-1
+ (2) a) n=4 or labor mita-anni culteren
Congioles a constant melyse long
Theremon stillated rough mageted dear store ?
$\frac{1}{10000000000000000000000000000000000$
account and and in release which with a fail a man
The same of the sa
7- 10/09 (73.46) = 10×1.8666
power 20002 and adt. (noithand wat sugg and
As (3)> 18 dB, N=7 can be used
routes nothing met policinas me betingen
in har chickenses of is given by the first She
b) n=3 consider a seven cell reuse pattern g = (D/R)^ = (4.582)^ = 1603 I io 6
S = (D/R) = (4.882) = 1603
1 (2.10 (27.12)
(1) 9) . monte 9 /montonogo (10.03) = 12.05 d3
an mother of Francisco Consider
As (E) is < 18 dB, i.e. minimum required
(9) we need to user large N.
T)
something the exic limited of bridge of 1. A
Consider N=12
$D = \sqrt{3}N = \sqrt{3}X12 = 6$
Reparais 1



	Name: Nishant Sanjay Chavan	4. 7. g
	class: BEIB sub: mcs Rollno: [18]	
	VT-1	
	But the (3) value anneidemina Rimot la com	in the
	But the (3) value considering first layer Revence only is 18:66 dB. The drop in (3)	1,0
	18.66 - 18.4 = 0.26 dB. When the second layer	15
	interference is included. Hence the second	laver
	area higher layer interferences can be no	leated
	as compared with interference from first	layer.
		3
_		100
		A.
		18
		d'
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3-3

Ashavan ...

Rollno: [18] 37 225 class: BE/B sub: mcs Q.2) The free space propagation model is used to predict received signal strength when the transmitter signal and orcceiver have a clear, unobstructed line of sight path between them. Satellite communication system and microwave line of sight radio links typically undergo free space propag-As with most large scale radio wave propagation models, the Bree space model predicts that received power decays as function of the T-R seperation. distance vaised to some power (i.e. powe law function). The free space power seceived by seceiver antenna which is seperated from radiating transmitter antenna by distance of, is given by the friss free where, Pis the transmitted power. (Pold) is the occeived power which is function of T-R sepenation Git is the antenna gain. 22 DECKTERE! Ac is related to physical size of antenna. Page. 2-1 Oshavan

Name! Nishant Sanjay

Chavan esp: 180600283