Q1:

Answer:

Cellular capacity has always a track-off between cellular quality because if we increase the cellular capacity, it can only be increased via the process of cell splitting. cell splitting is a process out sub dividing a congested cell into suppoller cells

each having it's own base station and corresponding reduction in antenna height and transmitted power. Cell splitting increases the celluler capacity since it increases the number at times the channel can be rewed Cellular quality depends upon several factors like accessibility, andio quality etc which are hindered while increasing the capacity so, it's a trade-off between these two.

No:

Date:

Q2:

Solution:

N = KBFT

$$\frac{100 = P_T}{1.32 \times 10^{-23} \times 200 \text{ kHz} \times 4 \times 300}$$

$$P_{Y} = 100 (3.312 \times 10^{-15})$$

 $P_{Y} = 3.3126 \times 10^{-13}$

No:

Date:

Q3:

Solution:

PY = - 100 dBm

Po = 10dBm

do = lom

N= 3.5

R= ?

 $P_{\gamma} = \left(\frac{d_{\circ}}{R}\right)^{h} P_{o}$

 $R^n = (d_0)^n P_0$

 $R^{3.5} - (10)^{3.5}$

10-109/10

 $R^{3.5} = 31622.7766$

1×10-10

R3.5 3.16 × 1014

R= 13892.09

Benefit on ONE over Another:

DCA is a complex algorithm and is

more costly but it resolves the

problem of blocking calls while

FCA will block the call if all champels

are occupied. So, DCA has that benefit.

No:	
Date:	
8	
Q5.	
Answer	
Answer:	
Rake vas	MA
Cellular sustant and specially in CDI	71/1
	di sa sa di di sa
Original signal transmission	
Original signal transmission. Rake scalingly in the sext 11-9	
received is multiple paralled	5.04
received used to combert multipath	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
The interference and inter symbol interference.	8 g . 5 . 1
The output of each corelator are we	Settens
to Ornwide bottom altimode	***
to provide better estimate of transmi	ttou
Signal their provided by signal compon	ient.
Democlulation is then based on the weigh	ghteel
outputs on the M-correlator.	
No was a series of the series	,
	11 1
a strain draw it would be a trained to the	da a
1219 200 i	Lin
200 A 200 A	
and the state of t	1 /13.
to the state of th	
AND THE RESERVE TO TH	V.
The state of the s	

No:
Date:
Q6:
Angwers
1000 love 3 move 2
cells from A and turn 60° and then
move 1 cell to find the co-chemel.
Ve will more y cell from A and
we will more y cell from A and
turn 60° anti clockwise and then move
2 cells.