







7-7-1-	
21	A city with a coverage grea of 500 sq. km is
u)	covered with a 12 cell tratem each with a
	radius of 1.387 km. It the total spectrum
	allocated 18128.5 MHZ with a full duplex
11	channel bandwidth of 25 MHZ. Assume a GOS
	at 0.02 for an Exland By system is specified
	and the offered traffed per user is 0:03
	Erlangs,
(	Compate stouth. Hoo society of the will
a	the no of cells in the service area
$\rightarrow$	Here,
1	Total city coverage area = 500 Ag. Km & Sciven
	Cell radius (R) = 1.3.87 km
	Now, 1001 x 1 W/ No Plant 1 1
	Area of a cell (hexagon) = 313 R2
<b>3</b>	100 May Quille 2 Miller Co
	- 2.598184
	(1) 1/52.5981x (1:387)
1	51111
	944 945 5, 89. Km, 10/10 1000
	Hence,
	The total no. of cells in the service area
	- Total city coverage area
	Area of a cell (nexagon)
	-1,500
	- 100 colla
j d	





