



4th Year IT-IS-SW

MCQ

1. QoS =

a) 1- Erlang B

b) 1 + Erlang B

c) 1-Erlang A

d) none

2. Why neighboring stations are assigned different group of channels in cellular system?

a) <u>Minimize</u> interference

<u>Minimize</u> b) Maximize cell

c) Maximize throughput

d) Minimize area

3. Which of the following is a universally adopted shape of cell?

a) circle

b) hexagon

c) triangle

d) square

4. For a cellular system, if there are N cells and each cell is allocated k channel. What is the total number of available radio channels, S?

a) S=N/K

b) S=N-K

c) S=N\*K

d) S=N+K

5. What is a cluster in a cellular system?

a) Group of frequencies

b) Group of cells

c) Group of mobiles

d) none

6. Capacity of a cellular system is directly proportional to

a) Number of cells

b) Number of clusters replicated

c) Number of frequencies

d) Number of users

7. A spectrum of 30 MHz is allocated to a cellular system which uses two 25 KHz simplex channels to provide full duplex voice channels. What is the number of channels available per cell for 4 cell reuse factors?

a) <u>150</u> channels

b) 600 channels

c) 50 channels

d) 85 channels

8. What is the condition for handoff?

a) Move to different cell with idle b) remain in same cell with call

c) Move to different cell with call

d) remain in same cell with idle

a) obstacles b) multipath

c) Variation in d) <u>All</u> amplitude and phase

18.	QoS (Quality of Service) tools are managed by							
	a) <u>network</u>	b) mobile	c) 0	5	d) none			
19.	QoS provide information (a) bandwidth	b) probability	of c)	traffic easurement	<b>d) <u>All</u></b> s			
20.	Battery management is the job of							
	a) network	b) base station	n <b>c)</b>	<u>os</u>	d) none			
21.	The existing theories and guidelines to build mobile application are							
	a) enough	b) sufficient	-	<u>not</u> ficient	d) none			
22.	affects memory and CPU capacities							
	a) Mobility	b) <u>Size of</u> <u>device</u>	c)	QoS	d) none			
23.	which of these considered as dimensions of mobility							
	a) limited device	b) limited pov	-	Location areness	d) <u>All</u>			
24.	considered as method used for obtaining location information							
	a) Triangulation			Proximit				
25.	Base stations are connected via to mobile							
	a) <u>wireless</u>	b) wired	c)	satellite	d) none			
26.	Base stations are connected via to base station controller							
	a) wireless	b) wired	c)	satellite	d) none			

27.	Used for routing calls						
	a) Base station	b) Base station controller	-	<u>Mobile</u> ch center	d) none		
28.	Used to store lo	ocation of MS when	e billin	g and access			
ir	nformation are maintaine	ed					
	a) VLR	b) <u>HLR</u>	c)	AUC	d) none		
29.	Each MS subscribes to						
	a) One MSC	b) One BSC	c)	One BS	d) ALL		
30.	If cell area increased then						
	a) Increase number of MS	_	c)	A and b	d) <u>none</u>		
	If 30 requests are gene		and ave	erage holding tim	e is 4		
m	ninutes then traffic load i a) <u>4</u>	sErlang b) 30	c)	120	d) 60		
32.	Signal follows	from base station t	to mobi	le station			
	a) Uplink	b) <u>downlink</u>	c)	control link	d) none		
33.	is a probability of	of an arrival call be	eing del	ayed			
	a) Erlang A	b) Erlang B	<b>c)</b>	Erlang C	d) none		
	is the blocking p	- <del>-</del>	oility of	loss or probabili	ty of		
	a) Erlang A	b) <u>Erlang B</u>	c)	Erlang C	d) none		
35.	Assume that the offere	d traffic load is 5 a	nd capa	acity n is 2 then (	oS is		
•••	a) <u>0.33</u>	b) 0.67	c)	1	d) none		