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Ctantad	Tuocday F March 2024 4:20 DM
Started on State	Tuesday, 5 March 2024, 4:30 PM Finished
	Tuesday, 5 March 2024, 4:37 PM
	7 mins 32 secs
Time taken	7 HIIIIS 32 SECS
Question 1	
Complete	
Marked out of 1.00	
The bandwidth of e	each ARFCN (Absolute Radio Frequency Channel Number) channel and number of subscriber supported by each
a. 25 MHz, 6 us	sers
b. 200 KHz, 8 u	isers
c. 250 KHz, 8 ud. None of the	
Question 2 Complete Marked out of 1.00	
The 5G technology	uses
a. Infrared wav	e e
O b. Millimeter w	rave
oc. None of thes	se se
d. Microwave	

a dense urban environment, path loss exponent $n = 1$ annel cells in cellular system. The minimum require dB. Determine the smallest cluster size needed to maximum. a. 3 b. 5 c. 2 d. 4	ed signal to interference $(\frac{S}{I})$ ra
a. 3 b. 5 c. 2	aintain this minimum required
b. 5 c. 2	
c. 2	
d. 4	
n 4	
out of 1.00	
a. FDMA b. CDMA c. SDMA d. TDMA	
n 5 ete out of 1.00	
Symbol Interference is a phenomenon occurs in	
a. Time domain	
b. both frequency and time domain	
c. None of these	
d. Frequency domain	

Question 6
Complete
Marked out of 1.00

Determine the signal-to-interference ratio (SIR) in dB, for path loss n = 3, and i = 1, j = 1. There are 9 co-channel cells in cellular system.

- a. 3.0 dB
- b. 5.3 dB
- oc. 4.0 dB
- Od. 4.5 dB

Question **7**

Complete

Marked out of 1.00

Which one among the following statement is wrong

- a. In circuit switching network, billing is based on the duration of the connection.
- b. GPRS is a packet switching network
- © C. In both circuit and packet switching networks, billing is based on the amount of transmitted data.
- od. In packet switching network, billing is based on the amount of transmitted data.

Question 8 Complete	
Marked out of 1.00	
Which of the following statement is incorrect	
 a. In soft handoff, a new connection is established before the old one is released. 	
in soft hunderly a new commediation is established service the old one is released.	
○ b. In hard handoff, the existing connection with the Base station (BS) must be broken b	pefore establishing a connection with a new
BS	
C. All of these	
d. In hard handoff, the mobile unit simultaneously remain connected to more than one	e Base station (BS).
Question 9	
Complete	
Marked out of 1.00	
Determine the capacity of a cellular system, with cluster size $i = 1, j = 1$ where each cell is a replication factor $M = 6$.	llocated a group of 60 channels and
a. None of these	
b. 1080	
○ c. ₁₆₈₀	
1000	
O d. 720	

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Question 10		
Complete		
Marked out of 1.00		
Which one of the following st	atement is correct?	
a. Mobile IP allows users	to keep the same IP address while roaming	
O b. None of these		
oc. In Mobile IP, users cha	anges it address to care-of-address while roaming	
od. Mobile IP don't allows	users to keep the same IP address while roaming	
Question 11		
Complete		
Marked out of 1.00		
The uplink and downlink frequency	uency channels of GSM are separated by	
○ a. 25 MHz		
O b. 50 MHz		
c. None of these		
d. 45 MHz		

F, 9.55 AIVI	Quiz1_05.05.2024_GNR+DIO_C5/11514. Attempt review
Question 12	
Complete	
Marked out of 1.00	
For a roaming user who is visiting	g a new MSC, the IMSI (International Mobile Subscriber Identity) will be temporarily stored in
a. HLR (Home Location Regis	ster)
(a) h	
b. VLR (Visitor Location Regi	ster)
C. None of these	
None of these	
Od. AUC (Authentication Cent	rer\
, to e (, tather treation eem	
Question 13	
Complete	
Marked out of 1.00	
A transceiver module in a wireles	ss sensor network contains which component internally?
a. None of these	
b. Electrodes	
o. Wires	
d. Antennas	

Question 14 Complete
Marked out of 1.00
Among the following statements which one is incorrect
a. Cellular networks are based on distributed routing and Adhoc networks are based on centralized routing.
b. Cellular networks are based on reuse of frequency spectrum through geographical channel reuse
oc. High cost and time of deployment (cellular network) and Quick and cost-effective deployment (MANET)
Od. None of these
Question 15
Complete
Marked out of 1.00
b. True
Question 16
Complete
Marked out of 1.00
Which of the statement is incorrect among the following
a. None of these
○ b. UTMS networks has a circuit switched element.
c. UTMS networks has both circuit and packet switched element.
○ d. UTMS networks has a packet switched element.

Question 17 Complete
Marked out of 1.00
In a GPRS network, Serving GPRS Support Node is the equivalent of system in GSM.
○ a. VLR
O b. BSC
◎ c. MSC
○ d. AuC
Question 18 Complete
Marked out of 1.00
An Radio Frequency Identifier (RFID) reader, consists of how many components?
a. Three
O b. Four
○ c. One
O d. Two
Question 19
Complete Marked out of 1.00
Which of the following statement is incorrect
a. In OFDM (Orthogonal Frequency Division Multiplexing), the PARP (Peak to average power ratio) is less.
OFDM (Orthogonal Frequency Division Multiplexing) provides a high spectral efficiency and data rate.
C. In OFDM (Orthogonal Frequency Division Multiplexing), the ICI (Inter-carrier-Interference) and ISI (Inter-Symbol-Interference) problem is less.
○ d. None of these
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Question 20	
Complete	
Marked out of 1.00	
A universal Mobile Telecommunication System (UMTS) is a network.	
○ a. 4G	
O b. 2.5G	
⊚ c. 3G	
○ d. 2G	
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