BBM458-Final
This exam is composed of 20 questions.
Please type your full name and ID as they are registered in BİLSİS.
Duration: 25 minutes.
Good luck!
E-posta adresi * mtusta113@gmail.com
Which one of the following OSI layers is responsible for sending frames with the necessary synchronization, error control, and flow control? *
Data link
Network
Transport
Application
Session

In a CDMA system, user A is using the code <1, -1, 1, 1, -1, -1>. Which one of the following codes should be assigned to user B so that A and B can use this CDMA system simultaneously? *

- -1 -1 -1 1 -1 1
- -1 -1 -1 -1 -1 1
- -1 1 -1 -1 -1 1
- -1 1 -1 -1 -1
- 1 1 1 -1 -1 -1

We want to send data word 100100 by using CRC error detection scheme. The predetermined divisor pattern is 1101. What is the sent data bit stream T? *

- 001100100
- 100100011
- 100100101
- 100100001
- 100100111

1

In a cellular network what happens if we increase the distance between centers of the nearest co-channel cells? *
QoS of the network increases
QoS of the network decreases
Capacity of the network increases
Security of the network decreases
Security of the network increases
is the maximum value or strength of the signal over time. *
Peak amplitude
Frequency
Period
Angle
Phase
What happens if we increase the energy per bit (E_b) in a system while keeping the bit rate R same? *
Error rate decreases
Error rate increases

\cup	More users can be anowed in the system
•	Noise increases
0	Co-channel interference increases
\ A / I=	
vvn	at is the unit for the measure of traffic intensity? *
0	Ohm
•	Earlang
\bigcirc	Minute
	Shannon
\//b	at are the factors that affect the free space loss 2 *
V V I I	at are the factors that affect the free space loss ? *
~	gain of transmitting antenna
~	gain of receiving antenna
	effective area of transmitting antenna
	effective area of receiving antenna
/	distance between the receiving and transmitting antennas
	GSM network what prevents an eavesdropper from identifying of scriber? *
300	
•	TMSI
0	IMSI
\bigcap	SIM
	A5
()	A3

Five signals, each requiring 10KHz, are multiplexed on to a single channel usir FDM. How much minimum bandwidth is required for the multiplexed channel Assume that the guard channel is 500Hz wide. *	_
● 52000 Hz	
○ 50000 Hz	
○ 49500 Hz	
○ 48000 Hz	
○ 50500 Hz	
ID *	
21527472	
A signal has a fundamental frequency of 100 Hz. What is its period? *	
1 sec	
1 ms	
10 sec	
10 ms	
1000 sec	

A spectrum of 100 MHz is allocated to a cellular system which uses two 100 KHz duplex channels to provide full duplex voice channels. What is the number of channels available per cell for 4 cell reuse factor? *
250
O 100
O 500
O 1000
O 200
Television channels are 6 MHz wide. How many bits/sec can be sent if four-level
digital signals are used? Assume a noiseless channel. *
digital signals are used? Assume a noiseless channel. * ② 24 Mbps
24 Mbps
24 Mbps12 Mbps
24 Mbps12 Mbps6 Mbps

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W	nat is the corresponding Hamming Code for the data "1001101"? *
C) 11011100101
C	10011100100
C	10011100110
•) 10011100101
C	10010100101
	nich is the process of encoding information from a message source in suitable anner for transmission? *
	anner for transmission? *
	anner for transmission? * Coding
	anner for transmission? * Coding Signalling
	anner for transmission? * Coding Signalling Demodulation
	anner for transmission? * Coding Signalling Demodulation Modulation
	anner for transmission? * Coding Signalling Demodulation Modulation
	Coding Signalling Demodulation Modulation Encryption
	Coding Signalling Demodulation Modulation Encryption hat are the subsystems of GSM architecture?*
	Coding Signalling Demodulation Modulation Encryption That are the subsystems of GSM architecture? * RSS

EIR

Co-channel interference is a function of*
Radius of cell
Transmitted power
Received power
Frequency of mobile user
Base station height
Name *
Mehmet Taha USTA
Blocked calls cleared formula is also known as formula. *
Erlang D
Erlang C
Erlang A
Erlang B
C Erlang E

Which one of the followings cannot be eliminated? *
Thermal Noise
O Intermodulation noise
Crosstalk
Impulse Noise
Oc-channel interference
In a GSM network handover decision is made by *
○ BSC
○ VLR
VLR→ HLR
HLR

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