

# MC MOCK ONLINE\_AY.20-21

Total points 48/50



Email address \*

rohitnimk@gmail.com

student name (in capital letter) \*

Rohit Nimkar

ROLL no. (in capital letter) \*

57

✓ 5G will offer latency of one millisecond or lower. What does latency refer to? 1/1

- ☐ A) The time it takes to reboot a connection
- ☐ B) The length of time devices will automatically connect to the network
- ☐ A) The speed of detecting a disruption to the network
- ☒ d) The delay between an input and a desired outcome



✓ Consider a OFDM system with 16 QAM modulation. Symbol duration,  $T_s = 33.33 \mu\text{sec}$  and total system bandwidth is 7.68 MHz. What is the data rate? 2/2

- ☐ A) 150 Kbps
- ☐ B) 15.36 Mbps
- ☒ C) 30.72 Mbps
- ☐ D) 7.68 Mbps



✓ Which of the following technology does not use MIMO? 1/1

- ☐ a) 4G
- ☐ b) Wifi
- ☐ c) WiMax
- ☒ d) AMPS



✓ Why is a cyclic prefix required in an OFDMA? 1/1

- ☐ a) To ensure symbol time is an integer number
- ☒ b) To help overcome multipath and ISI
- ☐ c) To maintain orthogonality
- ☐ d) To make OFDMA scalable



✓ Which organization is responsible for developing LTE standards?

1/1

- ☐ a) UMTS
- ☒ b) 3GPP
- ☐ c) 3GPP2
- ☐ d) ISO



✓ MIMO technology makes advantage of a natural radio wave phenomenon called \_\_\_\_\_

1/1

- ☐ a) Reflection
- ☒ b) Multipath
- ☐ c) Refraction
- ☐ d) Diffraction



✓ Which is the main multiple access technology used in 4G?

1/1

- ☒ A) OFDM
- ☐ B) CDMA
- ☐ C) FDMA
- ☐ D) TDMA



✓ In 5G NR, the NR stands for?

1/1

- ☐ A) Never Ready
- ☐ B) New Reach
- ☐ C) Not Right
- ☒ D) New Radio



✓ Minimum transit time interval specified for 3GPP LTE is

1/1

- ☐ A) 1  $\mu$ s
- ☐ B) 10  $\mu$ s
- ☒ C) 1 ms
- ☐ D) 10 ms



✓ Which of the following is the world's first cellular system to specify digital modulation and network level architecture?

- ☒ a) GSM
- ☐ b) AMPS
- ☐ c) CDMA
- ☐ d) IS-54



✓ Which of the following does not come under the teleservices of GSM? 1/1

- ☐ a) Standard mobile telephony
- ☐ b) Mobile originated traffic
- ☐ c) Base originated traffic
- ☒ d) Packet switched traffic



✓ Which of the following feature makes impossible to eavesdrop on GSM radio transmission? 1/1

- ☐ a) SIM
- ☒ b) On the air privacy
- ☐ c) SMS
- ☐ d) Packet switched traffic



✓ Which of the following subsystem provides radio transmission between mobile station and MSC? 1/1

- ☒ a) BSS
- ☐ b) NSS
- ☐ c) OSS
- ☐ d) BSC



✓ \_\_\_\_ manages the switching function in GSM

1/1

- ☐ a) BSS
- ☒ b) NSS
- ☐ c) OSS
- ☐ d) MSC

✓

✓ . \_\_\_\_ carries digitally encoded user data.

1/1

- ☒ a) Traffic channels
- ☐ b) Control channels
- ☐ c) Signalling channels
- ☐ d) Forward channels

✓

✓ \_\_\_\_ carries signalling and synchronizing commands.

1/1

- ☐ a) Traffic channels
- ☒ b) Control channels
- ☐ c) Signalling channels
- ☐ d) Forward channels

✓



✓ Which of the following is not a control channel of GSM?

1/1

- ☐ a) BCH
- ☐ b) CCCH
- ☐ c) DCCH
- ☒ d) TCH



✓ Which of the following channel is used by base station to provide forward link communication to mobile?

1/1

- ☐ a) RACH
- ☒ b) AGCH
- ☐ c) DCCH
- ☐ d) PCH



✓ Popular 2G CDMA standard IS-95 is also known as \_\_\_\_\_

1/1

- ☒ a) CdmaOne
- ☐ b) CdmaTwo
- ☐ c) IS-136
- ☐ d) IS-95B



✓ Which of the following burst is used to access service from any base station? 2/2

- ☐ a) TCH
- ☒ b) RACH
- ☐ c) SCH
- ☐ d) FCCH



✓ Which modulation technique is used by GSM? 2/2

- ☒ a) GMSK
- ☐ b) BPSK
- ☐ c) QPSK
- ☐ d) GFSK



✓ The 2G GSM technology uses a carrier separation of \_\_\_\_\_ 2/2

- ☐ a) 1.25 MHz
- ☒ b) 200 KHz
- ☐ c) 30 KHz
- ☐ d) 300 KHz





✓ Which of the following is not a TDMA standard of 2.5G network?

2/2

- ☐ a) HSCSD
- ☐ b) GPRS
- ☐ c) EDGE
- ☒ d) GSM



✓ How does HSCSD differs from the GSM to obtain higher speed data rate?

2/2

- ☐ a) By allowing single user to use one specific time slot
- ☒ b) By allowing single user to use consecutive user time slots
- ☐ c) By using 8-PSK modulation technique
- ☐ d) By allowing multiple users to use individual time slot



✓ What is frequency reuse?

1/1

- ☒ a) Process of selecting and allocating channels
- ☐ b) Process of selection of mobile users
- ☐ c) Process of selecting frequency of mobile equipment
- ☐ d) Process of selection of number of cells



✓ Which type of antenna is used for center excited cells?

1/1

- ☐ a) Dipole antenna
- ☐ b) Grid antenna
- ☐ c) Sectored antenna
- ☒ d) Omnidirectional antenna



✓ A spectrum of 30 MHz is allocated to a cellular system which uses two 25<sup>1</sup>/<sub>2</sub> KHz simplex channels to provide full duplex voice channels. What is the number of channels available per cell for 4 cell reuse factor?

- ☒ a) 150 channels
- ☐ b) 600 channels
- ☐ c) 50 channels
- ☐ d) 85 channels



✓ in SS7\_\_\_\_\_ provide procedures that transfer messages between signalling nodes.

1/1

- ☐ a) MTP level 1
- ☐ b) MTP level 2
- ☒ c) MTP level 3
- ☐ d) TCAP



✓ How is the relation between Erlang and CCS specified?

1/1

- ☒ a. 1 Erlang = 36 CCS
- ☐ b. 1 Erlang = 56 CCS
- ☐ c. 1 Erlang = 76 CCS
- ☐ d. 1 Erlang = 96 CCS



✓ The ratio of number of successful calls to the number of call attempts is known as \_\_\_\_\_ 1/1

- ☒ a. Call Completion Rate (CCR)
- ☐ b. Call Block Rate (CBR)
- ☐ c. Busy Hour Call Rate (BHCR)
- ☐ d. None of the above



✓ If a group of trunk is offered 1200 calls during the busy hour & 20 calls are lost along with the average call duration of about 7 min, then what would be the total duration of congestion period? 1/1

- ☐ a. 21.6 sec
- ☐ b. 42.2 sec
- ☒ c. 57.6 sec
- ☐ d. 98.2 sec



✓ In digital network synchronization, which approach indicates the cost burden carrying of highly accurate and redundant timing sources by means of smaller switching nodes? 1/1

- ☐ a. Packetization
- ☐ b. Master Slave Clocking
- ☐ c. Network Wide Pulse Stuffing
- ☒ d. Plesiochronous Network



✓ Which model of loss system allows the usage of Poisson distribution model for traffic analysis especially by assuming infinite number of users? 1/1

- ☒ a. Lost Calls Cleared (LCC)
- ☐ b. Lost Calls Returned (LCR)
- ☐ c. Lost Calls Held (LCH)
- ☐ d. None of the above



✓ Which of the following is not an objective for channel assignment strategies? 1/1

- ☐ a) Efficient utilization of spectrum
- ☐ b) Increase of capacity
- ☐ c) Minimize the interference
- ☒ d) Maximize the interference



✓ Dwell time does not depend on which of the following factor?

1/1

- ☐ a) Propagation
- ☐ b) Interference
- ☐ c) Distance between subscriber and base station
- ☒ d) Mobile station



✓ Umbrella cell approach is possible by using \_\_\_\_\_

1/1

- ☐ a) Antenna of same heights
- ☒ b) Antenna of different heights
- ☐ c) Different voice channels
- ☐ d) Different control channels



✓ Cell dragging is a problem occur due to \_\_\_\_\_

1/1

- ☒ a) Pedestrian users
- ☐ b) Stationary users
- ☐ c) High speed mobile systems
- ☐ d) Base stations having same frequency



✓ Co-channel reuse ratio is define by \_\_\_\_\_

1/1

- ☐ a)  $Q=D \cdot R$
- ☒ b)  $Q=D/R$
- ☐ c)  $Q=D^R$
- ☐ d)  $Q=1/R$



✓ Small scale propagation model is also known as \_\_\_\_\_

1/1

- ☒ a) Fading model
- ☐ b) Micro scale propagation model
- ☐ c) Okumura model
- ☐ d) Hata model



✗ Scattering occurs when medium consists of objects with dimensions \_\_\_\_\_ compared to wavelength.

.../1

- ☐ a) Same
- ☒ b) Small
- ☐ c) Large
- ☐ d) Very large



No correct answers



✓ The Hata model is empirical formulation of which model?

1/1

- ☒ a) Okumura model
- ☐ b) Longley- Rice model
- ☐ c) Durkin's model
- ☐ d) Walfisch and Bertoni model



✓ Mobile radio channel can be modelled as a \_\_\_\_\_ filter.

1/1

- ☐ a) Non-linear
- ☐ b) Low-pass
- ☒ c) Linear
- ☐ d) Bandpass



✓ Which type of connection takes place between an incoming trunk and an 1/1 outgoing trunk?

- ☐ a. Local call
- ☐ b. Outgoing call
- ☐ c. Incoming call
- ☒ d. Transit call



✗ In Voice Over IP, Term SIP stands for

0/1

- ☐ a) Session Initiation Protocol
- ☐ b) Session Initiation Port
- ☐ c) Session Initiation Path
- ☒ d) Session Initiation Packet

✗

**Correct answer**

- ☒ a) Session Initiation Protocol

This content is neither created nor endorsed by Google. - [Terms of Service](#) - [Privacy Policy](#)

Google Forms

