

[Dashboard](#) / [My courses](#) / [CS/IT314_2023](#) / [General](#) / [End-Semester Exam_CS/IT 314_04-05-2023_2.00 PM to 3.30 PM](#)

Started on	Thursday, 4 May 2023, 2:02 PM
State	Finished
Completed on	Thursday, 4 May 2023, 2:50 PM
Time taken	48 mins 3 secs
Grade	39.00 out of 60.00 (65%)

Question **1**

Complete

Mark 1.00 out of 1.00

The frequency range of IEEE 802.11b standard is

- ☐ a. 2.4 Gbps
- ☐ b. 5 Gbps
- ☒ c. 2.4 GHz
- ☐ d. 5 GHz

Question **2**

Complete

Mark 0.00 out of 1.00

Delay Spread is a phenomenon occurs in

- ☐ a. Frequency domain
- ☒ b. Time domain
- ☐ c. None of these
- ☒ d. Both frequency and time domain

Question **3**

Complete

Mark 0.00 out of 1.00

The energy source used in wireless sensor nodes are _____.

- ☐ a. DC Battery
- ☐ b. None of these
- ☒ c. Capacitor
- ☐ d. Inverter

Question **4**

Complete

Mark 1.00 out of 1.00

Why the shape of cell in a cellular system is hexagonal not circle?

- ☐ a. None of these
- ☐ b. Omni directionality
- ☐ c. Complex design
- ☒ d. Overlapping regions or gaps are left

Question **5**

Complete

Mark 1.00 out of 1.00

Optical communication needs line of sight for communication between transmitter and receiver.

- ☐ a. False
- ☐ b. None of these
- ☒ c. True

Question **6**

Complete

Mark 0.00 out of 1.00

The Radio Frequency Identifier tag needs Line of Sight (LoS) communication to be scanned by the Radio Frequency Identifier reader?

- ☒ a. False
- ☐ b. True

Question 7

Complete

Mark 1.00 out of 1.00

In a dense urban environment, path loss exponent $n = 4.5$ and there are six number of channel cells in cellular system. The minimum required signal to interference ($\frac{S}{I}$) ratio is 13 dB. Determine the smallest cluster size needed to maintain this minimum required

- ☐ a. 4
- ☐ b. 2
- ☒ c. 3
- ☐ d. 5

Question 8

Complete

Mark 1.00 out of 1.00

Which one of the following statement is correct?

- ☐ a. Mobile IP don't allows users to keep the same IP address while roaming
- ☐ b. None of these
- ☐ c. In Mobile IP, users changes it address to care-of-address while roaming
- ☒ d. Mobile IP allows users to keep the same IP address while roaming

Question 9

Complete

Mark 1.00 out of 1.00

Among them which one is not a multicarrier modulation technique

- ☒ a. CDMA (Code Division Multiple Access)
- ☐ b. FDM (Frequency Division Multiplexing)
- ☐ c. OFDM (Orthogonal Frequency Division Multiplexing)
- ☐ d. None of these

Question 10

Complete

Mark 0.00 out of 1.00

Which of the following statement is incorrect

- ☐ a. In OQPSK (Offset Quadrature Phase Shift Keying), the maximum transition between two symbols yields to a phase shift of $\pm 180^\circ$
- ☐ b. In QPSK (Quadrature Phase Shift Keying), the maximum transition between two symbols yields to a phase shift of $\pm 180^\circ$
- ☐ c. None of these
- ☒ d. In OQPSK (Offset Quadrature Phase Shift Keying), the maximum transition between two symbols yields to a phase shift of $\pm 90^\circ$

Question 11

Complete

Mark 1.00 out of 1.00

Which of the following statement is incorrect about microcell zone concept?

- ☐ a. Reduced interference
- ☐ b. Increase in capacity
- ☐ c. No loss in trunking efficiency
- ☒ d. More number of handoffs

Question 12

Complete

Mark 1.00 out of 1.00

SYN flooding is an _____ layer attack.

- ☒ a. Transport
- ☐ b. Application
- ☐ c. Network
- ☐ d. Data Link

Question **13**

Complete

Mark 1.00 out of 1.00

Which layer in the protocol stack is targeted for Denial of service attack?

- ☒ a. Multi Layer
- ☐ b. Network Layer
- ☐ c. Transport Layer
- ☐ d. Application Layer

Question **14**

Complete

Mark 1.00 out of 1.00

Which of the following is not a types of Spoofing?

- ☒ a. Hit and Run DDOS
- ☐ b. IP Spoofing
- ☐ c. Website Spoofing
- ☐ d. Email Spoofing

Question **15**

Complete

Mark 1.00 out of 1.00

In a wireless communication channel, a change in frequency of a EM signal causes due to

- ☒ a. Doppler shift
- ☐ b. Reflection
- ☐ c. Shadowing
- ☐ d. Multipath effect

Question 16

Complete

Mark 0.00 out of 1.00

A base station (BS) is transmitting with a power of 75 watt at frequency $f_c = 915$ MHz, the distance between the BS and the receiver mobile unit is 50 m. Calculate the power received **in dBm** by the mobile unit considering free space propagation, where the transmitting antenna has a unit gain and receiving antenna gain is 2 dB.

- ☐ a. -16.89 dBm
- ☒ b. 16.89 dBm
- ☐ c. -13.279 dBm
- ☐ d. 13.279 dBm

Question 17

Complete

Mark 1.00 out of 1.00

Low energy Adaptive Clustering Hierarchy (LEACH) is _____based protocol.

- ☐ a. Data
- ☐ b. Area
- ☐ c. Star
- ☒ d. Clustering

Question **18**

Complete

Mark 0.00 out of 1.00

Determine the distance between nearest co-channel cells of a cellular system for $i = 1$, and cell radius 2 m

- ☐ a. 9.16 m
- ☐ b. 4.59
- ☒ c. 7.75 m
- ☐ d. 10.00 m

Question **19**

Complete

Mark 1.00 out of 1.00

In the Friis transmission equation, the power received is not a function of

- ☐ a. Distance between the transmitter and receiver
- ☒ b. None of these
- ☐ c. Transmitter power
- ☐ d. Antenna Gain

Question **20**

Complete

Mark 1.00 out of 1.00

An unauthorized access of information from a wireless device through a Bluetooth connection is called _____

- ☒ a. Bluesnarfing
- ☐ b. None of these
- ☐ c. Bluestring
- ☐ d. Blueprint

Question **21**

Complete

Mark 1.00 out of 1.00

The major constraint in a mobile sensor network (MSN) _____

- ☐ a. Power Management
- ☒ b. Mobility Management
- ☐ c. Heterogeneity
- ☐ d. Bandwidth Management

Question **22**

Complete

Mark 1.00 out of 1.00

Which one of the following statement is incorrect?

Session Initiation Protocol

- ☒ a. is a transport layer protocol, for maintaining end-to-end sessions between sender and receiver
- ☐ b. None of these
- ☐ c. is responsible to maintain, control and terminate the session of one or more than one multimedia session
- ☐ d. controls multimedia sessions on internet

Question **23**

Complete

Mark 1.00 out of 1.00

Which one of the following statement is correct?

In hidden terminal problem,

- ☒ a. Two sender nodes are not in the communication range of each other
- ☐ b. None of these
- ☐ c. Hidden terminal problem is independent of node's communication range
- ☐ d. Two sender nodes are in the communication range of each other

Question **24**

Complete

Mark 1.00 out of 1.00

The barcodes needs Line of Sight (LoS) communication to be scanned by the barcode reader?

- ☒ a. True
- ☐ b. False

Question **25**

Complete

Mark 0.00 out of 1.00

In a MACA protocol, a neighbor node near the receiver upon hearing the CTS (clear to send) packet

- ☐ a. will refrain from its transmission till the receiver receives the entire data packet
- ☒ b. All of these
- ☐ c. may initiates its data transmission process as per the requirement
- ☐ d. will send RTS (request to send) packet to the transmitter/sender

Question **26**

Complete

Mark 1.00 out of 1.00

The network security requirement needed for industrial purposes is of

- ☐ a. Level 3
- ☐ b. Level 0
- ☒ c. Level 2
- ☐ d. Level 1

Question **27**

Complete

Mark 0.00 out of 1.00

The data rate of DPSK (Differential Phase Shift Keying) is higher than BPSK (Binary Phase Shift Keying)

- ☒ a. True
- ☐ b. False

Question **28**

Complete

Mark 1.00 out of 1.00

Which layer in the protocol stack is targeted for jamming attack?

- ☐ a. Application Layer
- ☐ b. Transport Layer
- ☒ c. MAC Layer
- ☐ d. Network Layer

Question **29**

Complete

Mark 1.00 out of 1.00

The interface between the UTRAN (UMTS Terrestrial Radio Access Network) and the CN (Core Network) is

- ☐ a. None of these
- ☐ b. Iur interface
- ☐ c. Iub interface
- ☒ d. Iu interface

Question **30**

Complete

Mark 1.00 out of 1.00

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

- ☐ a. 4.5 dB
- ☐ b. 4 dB
- ☐ c. 5.3 dB
- ☒ d. 3 dB

Question **31**

Complete

Mark 0.00 out of 1.00

In a cellular system, the capacity of the system is directly proportional to

- ☒ a. Number of cells
- ☐ b. None of these
- ☐ c. Number of times a cluster is replicated
- ☐ d. Number of Base stations

Question **32**

Complete

Mark 0.00 out of 1.00

The data rate of BPSK (Binary Phase Shift Keying) is higher than QPSK (Quadrature Phase Shift Keying)

- ☒ a. True
- ☐ b. False

Question **33**

Complete

Mark 1.00 out of 1.00

Which among them has the strongest wireless security?

- ☐ a. WPA (Wi-Fi Protected Access)
- ☐ b. WEP (Wireless Equivalent Privacy)
- ☒ c. WPA3 (Wi-Fi Protected Access 3)
- ☐ d. WPA2 (Wi-Fi Protected Access 2)

Question **34**

Complete

Mark 1.00 out of 1.00

Which one of the following is not a characteristic of ADHOC network?

- ☒ a. Fixed infrastructure
- ☐ b. Dynamic changing topology
- ☐ c. No fixed infrastructure
- ☐ d. Energy-constrained

Question **35**

Complete

Mark 0.00 out of 1.00

Among the three basic modulation schemes which yields the minimum probability of error.

- ☐ a. BPSK (Binary Phase Shift Keying)
- ☐ b. BFSK (Binary Frequency Shift Keying)
- ☒ c. BASK (Binary Amplitude Shift Keying)
- ☐ d. All of these have the same probability of error

Question **36**

Complete

Mark 0.00 out of 1.00

Which of the following statement is incorrect

- ☒ a. In OFDM (Orthogonal Frequency Division Multiplexing), the ICI (Inter-carrier-Interference) and ISI (Inter-Symbol-Interference) problem is less.
- ☐ b. In OFDM (Orthogonal Frequency Division Multiplexing), the PARP (Peak to average power ratio) is less.
- ☐ c. None of these
- ☐ d. OFDM (Orthogonal Frequency Division Multiplexing) provides a high spectral efficiency and data rate.

Question **37**

Complete

Mark 1.00 out of 1.00

In Orthogonal Frequency Division Multiplexing, the guard interval is provided to

- ☐ a. To attain high symbol rate
- ☐ b. To maintain orthogonality
- ☒ c. To eliminate Inter Symbol Interference (ISI)
- ☐ d. None of these

Question **38**

Complete

Mark 1.00 out of 1.00

Which among the following is the least strong security encryption standard for wireless networks?

- ☐ a. **Wired Equivalent Privacy (WEP)**

- ☐ b. Wi-Fi Protected Access 2 (WPA2)
- ☐ c. Wi-Fi Protected Access 3 (WPA3)
- ☐ d. Wi-Fi Protected Access (WPA)

Question **39**

Complete

Mark 1.00 out of 1.00

What is a cluster in cellular system?

- ☐ a. A group of subscribers
- ☐ b. A small geographic area
- ☒ c. A group of cells
- ☐ d. A large group of mobile systems

Question **40**

Complete

Mark 0.00 out of 1.00

Which of the following is not a component of UTRAN?

- ☐ a. Firewall
- ☐ b. Node B
- ☒ c. Serving GPRS Support Node
- ☐ d. Radio Network Controller

Question **41**

Complete

Mark 0.00 out of 1.00

Which of the statement is correct among the following

- ☒ a. UMTS networks has a circuit switched element.
- ☐ b. UMTS networks has both circuit and packet switched element.
- ☐ c. None of these
- ☐ d. UMTS networks has a packet switched element.

Question **42**

Complete

Mark 1.00 out of 1.00

A sensor node can be used to

- ☐ a. monitor conditions and movements of wild animals or plants in wildlife habitats
- ☐ b. monitor biological or chemical hazards to provide early warnings
- ☒ c. All of these
- ☐ d. monitor air quality and track environmental pollutants, wildfires or other natural or man-made disasters

Question **43**

Complete

Mark 0.00 out of 1.00

Which of the following is a collection of multiple separate networks?

- ☒ a. Wide Area Networks
- ☐ b. Personal Area Networks
- ☐ c. Local Area Networks
- ☐ d. Metropolitan area network

Question **44**

Complete

Mark 0.00 out of 1.00

In cellular system, neighboring stations are assigned different group of channels to

- ☐ a. minimize area coverage
- ☐ b. maximize throughput
- ☒ c. maximize capacity of each cell
- ☐ d. minimize interference

Question **45**

Complete

Mark 1.00 out of 1.00

The bandwidth of each ARFCN (Absolute Radio Frequency Channel Number) channel and number of subscriber supported by each channel is

- ☐ a. 250 KHz, 8 users
- ☐ b. 25 MHz, 6 users
- ☐ c. None of these
- ☒ d. 200 KHz, 8 users

Question **46**

Complete

Mark 0.00 out of 1.00

The frequency range for satellite communication is

- ☒ a. 0 MHz to 30 MHz
- ☐ b. 1 GHz to 30 GHz
- ☐ c. 1 KHz to 100 KHz
- ☐ d. 100 KHz to 10 MHz

Question **47**

Complete

Mark 1.00 out of 1.00

A Bluetooth enabled wireless device supports

- ☒ a. both point-to-point and point-to-multipoint communication
- ☐ b. point-to-multipoint communication
- ☐ c. None of these
- ☐ d. point-to-point communication

Question **48**

Complete

Mark 0.00 out of 1.00

Which of the following layers provides end-to-end connectivity in a IoT network?

- ☐ a. Physical Layer
- ☐ b. Transport Layer
- ☐ c. Data Link Layer
- ☒ d. Network Layer

Question **49**

Complete

Mark 0.00 out of 1.00

Why is a cyclic prefix required in Orthogonal Frequency Division Multiplexing?

- ☐ a. None of these
- ☐ b. To ensure symbol time is an integer number
- ☒ c. To maintain orthogonality
- ☐ d. To help overcome Inter Symbol Interference (ISI)

Question **50**

Complete

Mark 1.00 out of 1.00

The interface between an mobile user and its nearest base transceiver station is

- ☒ a. Air Interface
- ☐ b. None of these
- ☐ c. Abis Interface
- ☐ d. A Interface

Question **51**

Complete

Mark 0.00 out of 1.00

A program written in Arduino IDE is called _____

- ☐ a. IDE source



- ☒ b. Source code
- ☐ c. None of these
- ☐ d. Sketch

Question **52**

Complete

Mark 1.00 out of 1.00

The different types of Wireless Sensor Networks are _____.

- ☐ a. Underwater Sensor Networks
- ☒ b. All of these
- ☐ c. Terrestrial Sensor Networks
- ☐ d. Underground Sensor Networks

Question **53**

Complete

Mark 1.00 out of 1.00

What is the use of an Radio Frequency Identifier module?

- ☒ a. Object Identification
- ☐ b. To provide 3G Connectivity
- ☐ c. To measure the Wi-Fi strength
- ☐ d. To monitor temperature

Question **54**

Complete

Mark 1.00 out of 1.00

The UMTS is based on _____ multiple access technique.

- ☐ a. FDMA
- ☒ b. CDMA
- ☐ c. SDMA
- ☐ d. TDMA

Question **55**

Complete

Mark 1.00 out of 1.00

Due to higher frequency the 5G connectivity is not great as the frequency waves are only able to travel a short distance.

- ☒ a. True
- ☐ b. False

Question **56**

Complete

Mark 1.00 out of 1.00

The wireless Adhoc network is a centralized type of network

- ☒ a. False
- ☐ b. True

Question **57**

Complete

Mark 1.00 out of 1.00

In a single sensor module, which one among the following is an optional unit

- ☒ a. Location finder or GPS
- ☐ b. Processing unit
- ☐ c. Memory unit
- ☐ d. Sensing unit
- ☐ e. Power supply unit

Question **58**

Complete

Mark 1.00 out of 1.00

The relationship between coherence time (τ_c) and Doppler spread (D_s) is

- ☐ a. $\tau_c = \frac{1}{D_s^2}$
- ☐ b. $\tau_c = D_s$
- ☒ c. $\tau_c = \frac{1}{D_s}$
- ☐ d. None of these

Question **59**

Complete

Mark 1.00 out of 1.00

Which layer of the protocol stack is targeted for wormhole attack?

- ☒ a. Network Layer
- ☐ b. Transport Layer
- ☐ c. Application Layer
- ☐ d. MAC Layer

Question **60**

Complete

Mark 0.00 out of 1.00

SS7 (Signaling System No. 7) protocol supports the interface between

- ☐ a. MS and BTS
- ☐ b. None of these
- ☒ c. BSC and MSC
- ☐ d. BTS and BSC

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Jump to...



[Dashboard](#) / [Courses](#) / [Winter 2021-22](#) / [BTech Semester 6](#) / [Program Elective III](#) / [CS/IT314](#) / [General](#)
/ [Quiz Lab2 02.04.2022 12.10 PM to 12.20 PM](#)

Started on Saturday, 2 April 2022, 12:10 PM

State Finished

Completed on Saturday, 2 April 2022, 12:19 PM

Time taken 9 mins 29 secs

Marks 3.00/5.00

Grade 6.00 out of 10.00 (60%)

Question **1**

Complete

Mark 0.00 out of 1.00

SS7 (Signalling System No. 7) protocol supports the interface between

- ☐ a. BTS and BSC
- ☐ b. BSC and MSC
- ☐ c. MS and BTS
- ☒ d. None of these

The correct answer is:
BSC and MSC

Question **2**

Complete

Mark 1.00 out of 1.00

Which of the following statement is incorrect

- ☐ a. OFDM (Orthogonal Frequency Division Multiplexing) provides a high spectral efficiency and data rate.
- ☐ b. None of these
- ☒ c. In OFDM (Orthogonal Frequency Division Multiplexing), the PARP (Peak to average power ratio) is less.
- ☐ d. In OFDM (Orthogonal Frequency Division Multiplexing), the ICI (Inter-carrier-Interference) and ISI (Inter-Symbol-Interference) problem is less.

The correct answer is:

In OFDM (Orthogonal Frequency Division Multiplexing), the PARP (Peak to average power ratio) is less.

Question **3**

Complete

Mark 1.00 out of 1.00

Which one among the following statement is wrong

- ☒ a. In both circuit and packet switching networks, billing is based on the amount of transmitted data.
- ☐ b. In packet switching network, billing is based on the amount of transmitted data.
- ☐ c. In circuit switching network, billing is based on the duration of the connection.
- ☐ d. GPRS is a packet switching network

The correct answer is:

In both circuit and packet switching networks, billing is based on the amount of transmitted data.

Question **4**

Complete

Mark 1.00 out of 1.00

The bandwidth of each ARFCN (Absolute Radio Frequency Channel Number) channel and number of subscriber supported by each channel is

- ☐ a. None of these
- ☐ b. 250 KHz, 8 users
- ☐ c. 25 MHz, 6 users
- ☒ d. 200 KHz, 8 users

The correct answer is:
200 KHz, 8 users

Question **5**

Complete

Mark 0.00 out of 1.00

The uplink and downlink frequency channels of GSM are separated by

- ☒ a. 25 MHz
- ☐ b. 45 MHz
- ☐ c. 50 MHz
- ☐ d. None of these

The correct answer is:
45 MHz

[◀ Quiz_Lab3_18.04.2022_12.35 PM to 12.40 PM](#)

Jump to...

[Quiz_Lab1_25.03.2022_4.25PM to 4.35 PM ▶](#)

Started on Friday, 11 March 2022, 2:30 PM

State Finished

Completed on Friday, 11 March 2022, 3:30 PM

Time taken 1 hour

Marks 22.00/32.00

Grade 27.50 out of 40.00 (69%)

Question **1**

Complete

Mark 1.00 out of 1.00

In the link design analysis the power received path loss is not a function of

- ☐ a. Distance between the transmitter and receiver
- ☐ b. Antenna Gain
- ☒ c. None of these
- ☐ d. Transmitter power

The correct answer is:

None of these

Question **2**

Complete

Mark 0.00 out of 1.00

In a wireless communication channel, a change in frequency of a EM signal causes due to

- ☒ a. Multipath effect
- ☐ b. Shadowing
- ☐ c. Reflection
- ☐ d. Doppler shift

The correct answer is:

Doppler shift

Question **3**

Complete

Mark 1.00 out of 1.00

What is full form of UMTS?

- ☐ a. Universal Mobile Telecommunication Server
- ☐ b. Universal Mobile Telephonic System
- ☐ c. Universal Mobile Telephonic Server
- ☒ d. Universal Mobile Telecommunications System

The correct answer is:

Universal Mobile Telecommunications System

Question **4**

Complete

Mark 1.00 out of 1.00

Among the following which is not a part of Base Station Subsystem (BSS)

- ☒ a. Mobile Switching Centre (MSC)
- ☐ b. Base Station Controller (BSC)
- ☐ c. Base Transceiver Station (BTS)
- ☐ d. Mobile Station (MS)

The correct answer is:

Mobile Switching Centre (MSC)

Question **5**

Complete

Mark 1.00 out of 1.00

The frequency range of IEEE 802.11b standard is

- ☒ a. 2.4 GHz
- ☐ b. 5 Gbps
- ☐ c. 5 GHz
- ☐ d. 2.4 Gbps

The correct answer is:

2.4 GHz

Question **6**

Complete

Mark 0.00 out of 1.00

Relation between system capacity (**C**) of a cellular system with frequency reuse factor (**Q**) and distance between co-channel cells (**R**)

- ☐ a. **R** increases, **Q** increases and **C** increases
- ☒ b. **R** increases, **Q** increases and **C** decreases
- ☐ c. **R** decreases, **Q** increases and **C** increases
- ☐ d. **R** increases, **Q** decreases and **C** increases

The correct answer is:

R increases, **Q** increases and **C** increases

Question **7**

Complete

Mark 1.00 out of 1.00

A network of five mobile phones for data sharing is created using Bluetooth, what is the operating frequency of this network

- ☒ a. 2.4 GHz
- ☐ b. 5 GHz
- ☐ c. None of these
- ☐ d. 200 MHz

The correct answer is:

2.4 GHz

Question **8**

Complete

Mark 0.00 out of 1.00

Among them which one is not a multicarrier modulation technique

- ☐ a. GFDM (Generalized Frequency Division Multiplexing)
- ☐ b. OFDM (Orthogonal Frequency Division Multiplexing)
- ☒ c. None of these
- ☐ d. CDMA (Code Division Multiple Access)

The correct answer is:

CDMA (Code Division Multiple Access)

Question **9**

Complete

Mark 1.00 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. 5.3 dB
- ☒ b. 3.0 dB
- ☐ c. 4.5 dB
- ☐ d. 4.0 dB

The correct answer is:

3.0 dB

Question **10**

Complete

Mark 0.00 out of 1.00

Which of the statement is incorrect among the following

- ☐ a. The PCU (Packet Control Unit) in GPRS directs the circuit switched data to standard GSM network and packet switched data to GPRS network.
- ☐ b. The PCU (Packet Control Unit) in GPRS directs only the packet switched data to GPRS network.
- ☐ c. None of these
- ☒ d. The PCU (Packet Control Unit) in GPRS directs the circuit switched data to GPRS network and packet switched data to standard GSM network.

The correct answer is:

The PCU (Packet Control Unit) in GPRS directs the circuit switched data to standard GSM network and packet switched data to GPRS network.

Question **11**

Complete

Mark 1.00 out of 1.00

In the link design analysis, the received power is not a function of

- ☐ a. Antenna gain
- ☐ b. Path loss
- ☒ c. Doppler shift
- ☐ d. Transmitter power

The correct answer is:

Doppler shift

Question **12**

Complete

Mark 0.00 out of 1.00

The uplink and downlink frequency bands of cellular GSM system are

- ☐ a. Uplink 1710-1785 MHz, Downlink 1805-1880 MHz
- ☐ b. None of these
- ☐ c. Uplink 890-915 MHz, Downlink 935-960 MHz
- ☒ d. Uplink 935-960 MHz, Downlink 890-915 MHz

The correct answer is:

Uplink 890-915 MHz, Downlink 935-960 MHz

Question **13**

Complete

Mark 1.00 out of 1.00

Which of the following statement is incorrect about microcell zone concept?

- ☐ a. Reduced interference
- ☐ b. No loss in trunking efficiency
- ☒ c. More number of handoffs
- ☐ d. Increase in capacity

The correct answer is:

More number of handoffs

Question **14**

Complete

Mark 1.00 out of 1.00

A spectrum of 60 MHz is allocated to a wireless cellular system which uses 50 KHz of duplex channel for communication. For cluster size $N = 7$ and replication factor $M = 4$, calculate the total capacity offered by the cellular system.

- ☐ a. 4200
- ☐ b. 4400
- ☒ c. 4800
- ☐ d. None of these

The correct answer is:
4800

Question **15**

Complete

Mark 1.00 out of 1.00

For a roaming user who is visiting a new MSC, the IMSI (International Mobile Subscriber Identity) will be temporarily stored in

- ☐ a. HLR (Home Location Register)
- ☒ b. VLR (Visitor Location Register)
- ☐ c. None of these
- ☐ d. AUC (Authentication Center)

The correct answer is:
VLR (Visitor Location Register)

Question **16**

Complete

Mark 0.00 out of 1.00

The uplink and downlink frequency channels of GSM are separated by

- ☐ a. 50 MHz
- ☒ b. 25 MHz
- ☐ c. 45 MHz
- ☐ d. None of these

The correct answer is:

45 MHz

Question **17**

Complete

Mark 0.00 out of 1.00

Which of the statement is incorrect among the following

- ☐ a. UTMS networks has both circuit and packet switched element.
- ☒ b. None of these
- ☐ c. UTMS networks has a circuit switched element.
- ☐ d. UTMS networks has a circuit switched element.

The correct answer is:

UTMS networks has both circuit and packet switched element.

Question **18**

Complete

Mark 1.00 out of 1.00

Among the three basic modulation schemes which yields the minimum probability of error.

- ☐ a. All of these have the same probability of error
- ☒ b. BPSK (Binary Phase Shift Keying)
- ☐ c. BFSK (Binary Frequency Shift Keying)
- ☐ d. BASK (Binary Amplitude Shift Keying)

The correct answer is:

BPSK (Binary Phase Shift Keying)

Question **19**

Complete

Mark 1.00 out of 1.00

GPRS (General Packet Radio Service) is an example of

- ☐ a. 1 G
- ☒ b. 2.5 G
- ☐ c. 2 G
- ☐ d. 3 G

The correct answer is:

2.5 G

Question **20**

Complete

Mark 1.00 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.
- ☐ b. In OFDM (Orthogonal Frequency Division Multiplexing), the ICI (Inter-carrier-Interference) and ISI (Inter-Symbol-Interference) problem is less.
- ☐ c. None of these
- ☐ d. OFDM (Orthogonal Frequency Division Multiplexing) provides a high spectral efficiency and data rate.

The correct answer is:

In OFDM (Orthogonal Frequency Division Multiplexing), the PARP (Peak to average power ratio) is less.

Question **21**

Complete

Mark 1.00 out of 1.00

Find the value of frequency reuse factor Q of a cellular system for $i = 0, j = 2$

- ☐ a. 4.58
- ☒ b. 3.46
- ☐ c. 5.75
- ☐ d. 6.25

The correct answer is:

3.46

Question **22**

Complete

Mark 1.00 out of 1.00

Among the following which is not a part of Network Switching Subsystem (NSS)

- ☐ a. Authentication Center (AUC)
- ☐ b. Mobile Switching Centre (MSC)
- ☒ c. Base Transceiver Station (BTS)
- ☐ d. Operation Support Subsystem (OSS)

The correct answer is:

Base Transceiver Station (BTS)

Question **23**

Complete

Mark 0.00 out of 1.00

The number of sensor nodes in an Adhoc network is more than in a Wireless Sensor Network

- ☐ a. False
- ☒ b. True

The correct answer is:

False

Question **24**

Complete

Mark 1.00 out of 1.00

Which of the following statement is incorrect?

- ☒ a. In soft handoff, the existing connection with the Base Station (BS) must be broken before establishing a connection with a new BS.
- ☐ b. In soft handoff, a new connection is established before the old one is released.
- ☐ c. In hard handoff, the existing connection with the Base Station (BS) must be broken before establishing a connection with a new BS.
- ☐ d. In hard handoff, the mobile unit simultaneously remain connected to more than one Base Station (BS).

The correct answer is:

In hard handoff, the mobile unit simultaneously remain connected to more than one Base Station (BS).

Question **25**

Complete

Mark 1.00 out of 1.00

A base station (BS) is transmitting with a power of 25 watt at frequency $f_c = 900 \text{ MHz}$. the distance between the BS and the receiver mobile unit is 50 m. Calculate the power received in dBm by the mobile unit considering free space propagation, where both transmitting and receiving antenna has unit gain.

- ☐ a. -24.53 dBm
- ☐ b. +21.53 dBm
- ☒ c. -21.53 dBm
- ☐ d. +24.53 dBm

The correct answer is:

-21.53 dBm

Question **26**

Complete

Mark 0.00 out of 1.00

The Adhoc network is a centralized type of network

- ☐ a. False
- ☒ b. True

The correct answer is:

False

Question **27**

Complete

Mark 1.00 out of 1.00

In OFDM (Orthogonal Frequency Division Multiplexing), a set of different subcarriers overlapping in frequency domain. However, these subcarriers are

- ☐ a. designed to be in $\pm 180^\circ$ phase shift with each other.
- ☐ b. designed to be in $\pm 135^\circ$ phase shift with each other.
- ☒ c. designed to be in $\pm 90^\circ$ phase shift with each other
- ☐ d. None of these

The correct answer is:

designed to be in $\pm 90^\circ$ phase shift with each other

Question **28**

Complete

Mark 1.00 out of 1.00

If a user is in a voice call and also want to use his/her data connection uninterruptedly then which network will be preferred

- ☐ a. LTE
- ☒ b. VoLTE
- ☐ c. None of these

The correct answer is:

VoLTE

Question 29

Complete

Mark 1.00 out of 1.00

In a dense urban environment, path loss exponent $n = 4.5$ and there are six number of c channel cells in cellular system. The minimum required signal to interference ($\frac{S}{I}$) ratio 13 dB. Determine the smallest cluster size needed to maintain this minimum required ($\frac{S}{I}$;

- ☐ a. 4
- ☒ b. 3
- ☐ c. 5
- ☐ d. 2

The correct answer is:

3

Question 30

Complete

Mark 1.00 out of 1.00

Determine the capacity of a cellular system, with cluster size $N = 7$ where each cell is allocated a group of 60 channels and replication factor $M = 4$.

- ☐ a. None of these
- ☒ b. 1680
- ☐ c. 1600
- ☐ d. 1480

The correct answer is:

1680

Question **31**

Complete

Mark 1.00 out of 1.00

Determine the distance between nearest co-channel cells of a cellular system for $i = 1, j = 2$ and cell radius 2 m

- ☐ a. 4.59
- ☒ b. 9.16
- ☐ c. 7.75
- ☐ d. 10.00

The correct answer is:
9.16

Question **32**

Complete

Mark 0.00 out of 1.00

The relationship between coherence time and coherence bandwidth is

- ☒ a. $\tau_c = \frac{1}{BW^2}$
- ☐ b. $\tau_c = \frac{1}{BW}$
- ☐ c. $\tau_c = BW$
- ☐ d. None of these

The correct answer is:

$$\tau_c = \frac{1}{BW}$$

[◀ Quiz_Lab1_25.03.2022_4.25PM to 4.35 PM](#)

Jump to...

[Announcements ▶](#)

[Dashboard](#) / [Courses](#) / [Winter 2021-22](#) / [BTech Semester 6](#) / [Program Elective III](#) / [CS/IT314](#) / [General](#)
/ [Quiz Lab1 25.03.2022 4.25PM to 4.35 PM](#)

Started on Friday, 25 March 2022, 4:25 PM

State Finished

Completed on Friday, 25 March 2022, 4:33 PM

Time taken 8 mins 5 secs

Marks 3.00/5.00

Grade 6.00 out of 10.00 (60%)

Question **1**

Complete

Mark 0.00 out of 1.00

Which of the statement is wrong among the following

- ☐ a. UTMS networks has a packet switched element.
- ☒ b. None of these
- ☐ c. UTMS networks has a circuit switched element.
- ☐ d. UTMS networks has both circuit and packet switched element.

The correct answer is:

UTMS networks has both circuit and packet switched element.

Question **2**

Complete

Mark 0.00 out of 1.00

For a roaming user who is visiting a new MSC, the IMSI (International Mobile Subscriber Identity) will be temporarily stored in

- ☐ a. None of these
- ☐ b. VLR (Visitor Location Register)
- ☐ c. AUC (Authentication Center)
- ☒ d. HLR (Home Location Register)

The correct answer is:

VLR (Visitor Location Register)

Question **3**

Complete

Mark 1.00 out of 1.00

Which of the following statement is incorrect

- ☐ a. In soft handoff, the existing connection with the Base station (BS) must be broken before establishing a connection with a new BS
- ☒ b. In hard handoff, the mobile unit simultaneously remain connected to more than one Base station (BS).
- ☐ c. In hard handoff, the existing connection with the Base station (BS) must be broken before establishing a connection with a new BS
- ☐ d. In soft handoff, a new connection is established before the old one is released.

The correct answer is:

In hard handoff, the mobile unit simultaneously remain connected to more than one Base station (BS).

Question 4

Complete

Mark 1.00 out of 1.00

Which one is not a characteristics of a coherence bandwidth channel?

- ☒ a. Nonlinear phase response
- ☐ b. Linear phase response
- ☐ c. Channel bandwidth is greater than the bandwidth of the transmitted signal
- ☐ d. Equal gain over all frequencies

The correct answer is:

Nonlinear phase response

Question 5

Complete

Mark 1.00 out of 1.00

Which of the following statement is incorrect

- ☐ a. In QPSK (Quadrature Phase Shift Keying), the maximum transition between two symbols yields to a phase shift of $\pm 180^\circ$
- ☐ b. In $\frac{\pi}{4}$ QPSK (Quadrature Phase Shift Keying), the maximum transition between two symbols yields to a phase shift of $\pm 135^\circ$
- ☐ c. In BPSK (Quadrature Phase Shift Keying), the maximum transition between two symbols yields to a phase shift of $\pm 180^\circ$
- ☒ d. In OQPSK (Quadrature Phase Shift Keying), the maximum transition between two symbols yields to a phase shift of $\pm 135^\circ$

The correct answer is:

In OQPSK (Quadrature Phase Shift Keying), the maximum transition between two symbols yields to a phase shift of $\pm 135^\circ$

◀ Quiz_Lab2_02.04.2022_12.10 PM to 12.20 PM

Jump to...

Mid-Semester Exam_CS/IT 314_11-03-2022_2.30 PM to 3.30 PM ▶

[Dashboard](#) / [Courses](#) / [Winter 2021-22](#) / [BTech Semester 6](#) / [Program Elective III](#) / [CS/IT314](#) / [General](#)
/ [Quiz Lab2 02.04.2022 12.10 PM to 12.20 PM](#)

Started on Saturday, 2 April 2022, 12:10 PM

State Finished

Completed on Saturday, 2 April 2022, 12:19 PM

Time taken 9 mins 29 secs

Marks 3.00/5.00

Grade 6.00 out of 10.00 (60%)

Question **1**

Complete

Mark 0.00 out of 1.00

SS7 (Signalling System No. 7) protocol supports the interface between

- ☐ a. BTS and BSC
- ☐ b. BSC and MSC
- ☐ c. MS and BTS
- ☒ d. None of these

The correct answer is:
BSC and MSC

Question **2**

Complete

Mark 1.00 out of 1.00

Which of the following statement is incorrect

- ☐ a. OFDM (Orthogonal Frequency Division Multiplexing) provides a high spectral efficiency and data rate.
- ☐ b. None of these
- ☒ c. In OFDM (Orthogonal Frequency Division Multiplexing), the PARP (Peak to average power ratio) is less.
- ☐ d. In OFDM (Orthogonal Frequency Division Multiplexing), the ICI (Inter-carrier-Interference) and ISI (Inter-Symbol-Interference) problem is less.

The correct answer is:

In OFDM (Orthogonal Frequency Division Multiplexing), the PARP (Peak to average power ratio) is less.

Question **3**

Complete

Mark 1.00 out of 1.00

Which one among the following statement is wrong

- ☒ a. In both circuit and packet switching networks, billing is based on the amount of transmitted data.
- ☐ b. In packet switching network, billing is based on the amount of transmitted data.
- ☐ c. In circuit switching network, billing is based on the duration of the connection.
- ☐ d. GPRS is a packet switching network

The correct answer is:

In both circuit and packet switching networks, billing is based on the amount of transmitted data.

Question **4**

Complete

Mark 1.00 out of 1.00

The bandwidth of each ARFCN (Absolute Radio Frequency Channel Number) channel and number of subscriber supported by each channel is

- ☐ a. None of these
- ☐ b. 250 KHz, 8 users
- ☐ c. 25 MHz, 6 users
- ☒ d. 200 KHz, 8 users

The correct answer is:
200 KHz, 8 users

Question **5**

Complete

Mark 0.00 out of 1.00

The uplink and downlink frequency channels of GSM are separated by

- ☒ a. 25 MHz
- ☐ b. 45 MHz
- ☐ c. 50 MHz
- ☐ d. None of these

The correct answer is:
45 MHz

[◀ Quiz_Lab3_18.04.2022_12.35 PM to 12.40 PM](#)

Jump to...

[Quiz_Lab1_25.03.2022_4.25PM to 4.35 PM ▶](#)

[Dashboard](#) / [Courses](#) / [Winter 2021-22](#) / [BTech Semester 6](#) / [Program Elective III](#) / [CS/IT314](#) / [General](#)
/ [Quiz Lab4 21.04.2022 4.15 PM to 4.20 PM](#)

Started on Thursday, 21 April 2022, 4:16 PM

State Finished

Completed on Thursday, 21 April 2022, 4:21 PM

Time taken 5 mins

Marks 4.00/5.00

Grade 8.00 out of 10.00 (80%)

Question **1**

Complete

Mark 0.00 out of 1.00

Which layer in the protocol stack is targeted for jamming attack?

- ☐ a. Application Layer
- ☐ b. Transport Layer
- ☐ c. MAC Layer
- ☒ d. Network Layer

The correct answer is:

MAC Layer

Question **2**

Complete

Mark 1.00 out of 1.00

The barcodes needs Line of Sight (LoS) communication to be scanned by the barcode reader?

- ☒ a. True
- ☐ b. False

The correct answer is:

True

Question **3**

Complete

Mark 1.00 out of 1.00

Wireless networks are same as computer networks, that uses radio frequency channels as their _____ for communication.

- ☐ a. CDMA
- ☐ b. TDMA
- ☐ c. Media access control
- ☒ d. Physical media

The correct answer is:

Physical media

Question **4**

Complete

Mark 1.00 out of 1.00

An Radio Frequency Identifier (RFID) reader, consists of how many components?

- ☐ a. Two
- ☐ b. One
- ☒ c. Three
- ☐ d. Four

The correct answer is:

Three

Question **5**

Complete

Mark 1.00 out of 1.00

Which layer of the protocol stack is targeted for wormhole attack?

- ☐ a. Transport Layer
- ☐ b. MAC Layer
- ☒ c. Network Layer
- ☐ d. Application Layer

The correct answer is:

Network Layer

Jump to...

[Announcements](#) ▶

[Dashboard](#) / [Courses](#) / [Winter 2021-22](#) / [BTech Semester 6](#) / [Program Elective III](#) / [CS/IT314](#) / [General](#)
/ [Quiz Lab5 28.04.2022 4.40 PM to 4.45 PM](#)

Started on Thursday, 28 April 2022, 4:40 PM

State Finished

Completed on Thursday, 28 April 2022, 4:45 PM

Time taken 5 mins 1 sec

Marks 5.00/5.00

Grade 10.00 out of 10.00 (100%)

Question **1**

Complete

Mark 1.00 out of 1.00

A transceiver module in a wireless sensor network contains which component internally?

- ☒ a. Antennas
- ☐ b. None of these
- ☐ c. Electrodes
- ☐ d. Wires

The correct answer is:

Antennas

Question **2**

Complete

Mark 1.00 out of 1.00

Optical communication needs line of sight for communication between transmitter and receiver.

- ☒ a. True
- ☐ b. False

The correct answer is:

True

Question **3**

Complete

Mark 1.00 out of 1.00

Sound Navigation and Ranging (SONAR) technology uses _____ for communication.

- ☐ a. LASER
- ☐ b. Microwaves
- ☒ c. Ultrasonic waves
- ☐ d. Infrared waves

The correct answer is:

Ultrasonic waves

Question **4**

Complete

Mark 1.00 out of 1.00

The major constraint in a mobile sensor network (MSN) _____

- ☐ a. Bandwidth Management
- ☒ b. Mobility Management
- ☐ c. Power Management
- ☐ d. Heterogeneity

The correct answer is:

Mobility Management

Question **5**

Complete

Mark 1.00 out of 1.00

SYN flooding is an _____ layer attack.

- ☐ a. Network
- ☒ b. Transport
- ☐ c. Data Link
- ☐ d. Application

The correct answer is:

Transport

Jump to...

[Announcements](#) ►

Started on Monday, 2 May 2022, 1:00 PM

State Finished

Completed on Monday, 2 May 2022, 1:05 PM

Time taken 5 mins 1 sec

Marks 3.00/5.00

Grade 6.00 out of 10.00 (60%)

Question **1**

Complete

Mark 1.00 out of 1.00

Which among them has the strongest wireless security?

- ☒ a. WPA3 (Wi-Fi Protected Access 3)
- ☐ b. WPA2 (Wi-Fi Protected Access 2)
- ☐ c. WPA (Wi-Fi Protected Access)
- ☐ d. WEP (Wireless Equivalent Privacy)

The correct answer is:

WPA3 (Wi-Fi Protected Access 3)

Question **2**

Complete

Mark 1.00 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. High cost and time of deployment (cellular network) and Quick and cost-effective deployment (MANET)
- ☐ c. None of these
- ☐ d. Cellular networks are based on reuse of frequency spectrum through geographical channel reuse

The correct answer is:

Cellular networks are based on distributed routing and Adhoc networks are based on centralized routing.

Question **3**

Complete

Mark 0.00 out of 1.00

In a GPRS network, Serving GPRS Support Node is the equivalent of _____ system in GSM.

- ☒ a. VLR
- ☐ b. BSC
- ☐ c. MSC
- ☐ d. AuC

The correct answer is:

MSC

Question **4**

Complete

Mark 0.00 out of 1.00

A universal Mobile Telecommunication System (UMTS) is a _____ network.

- ☐ a. 3G
- ☐ b. 2.5G
- ☐ c. 2G
- ☒ d. 4G

The correct answer is:

3G

Question **5**

Complete

Mark 1.00 out of 1.00

Universal Mobile Telecommunications System (UMTS) is based on _____ multiple access technique.

- ☐ a. SDMA
- ☐ b. TDMA
- ☐ c. FDMA
- ☒ d. CDMA

The correct answer is:

CDMA

Jump to...

[Dashboard](#) / [Courses](#) / [Winter 2021-22](#) / [BTech Semester 6](#) / [Program Elective III](#) / [CS/IT314](#) / [General](#)
/ [Quiz Lab4 21.04.2022 4.15 PM to 4.20 PM](#)

Started on Thursday, 21 April 2022, 4:16 PM

State Finished

Completed on Thursday, 21 April 2022, 4:21 PM

Time taken 5 mins

Marks 4.00/5.00

Grade 8.00 out of 10.00 (80%)

Question **1**

Complete

Mark 0.00 out of 1.00

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The correct answer is:

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Complete

Mark 1.00 out of 1.00

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- ☐ a. CDMA
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Physical media

Question **4**

Complete

Mark 1.00 out of 1.00

An Radio Frequency Identifier (RFID) reader, consists of how many components?

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- ☐ b. One
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Question **5**

Complete

Mark 1.00 out of 1.00

Which layer of the protocol stack is targeted for wormhole attack?

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Network Layer

Jump to...

[Announcements](#) ▶

[Dashboard](#) / [Courses](#) / [Winter 2021-22](#) / [BTech Semester 6](#) / [Program Elective III](#) / [CS/IT314](#) / [General](#)
/ [Quiz Lab1 25.03.2022 4.25PM to 4.35 PM](#)

Started on Friday, 25 March 2022, 4:25 PM

State Finished

Completed on Friday, 25 March 2022, 4:33 PM

Time taken 8 mins 5 secs

Marks 3.00/5.00

Grade 6.00 out of 10.00 (60%)

Question **1**

Complete

Mark 0.00 out of 1.00

Which of the statement is wrong among the following

- ☐ a. UTMS networks has a packet switched element.
- ☒ b. None of these
- ☐ c. UTMS networks has a circuit switched element.
- ☐ d. UTMS networks has both circuit and packet switched element.

The correct answer is:

UTMS networks has both circuit and packet switched element.

Question **2**

Complete

Mark 0.00 out of 1.00

For a roaming user who is visiting a new MSC, the IMSI (International Mobile Subscriber Identity) will be temporarily stored in

- ☐ a. None of these
- ☐ b. VLR (Visitor Location Register)
- ☐ c. AUC (Authentication Center)
- ☒ d. HLR (Home Location Register)

The correct answer is:

VLR (Visitor Location Register)

Question **3**

Complete

Mark 1.00 out of 1.00

Which of the following statement is incorrect

- ☐ a. In soft handoff, the existing connection with the Base station (BS) must be broken before establishing a connection with a new BS
- ☒ b. In hard handoff, the mobile unit simultaneously remain connected to more than one Base station (BS).
- ☐ c. In hard handoff, the existing connection with the Base station (BS) must be broken before establishing a connection with a new BS
- ☐ d. In soft handoff, a new connection is established before the old one is released.

The correct answer is:

In hard handoff, the mobile unit simultaneously remain connected to more than one Base station (BS).

Question **4**

Complete

Mark 1.00 out of 1.00

Which one is not a characteristics of a coherence bandwidth channel?

- ☒ a. Nonlinear phase response
- ☐ b. Linear phase response
- ☐ c. Channel bandwidth is greater than the bandwidth of the transmitted signal
- ☐ d. Equal gain over all frequencies

The correct answer is:

Nonlinear phase response

Question **5**

Complete

Mark 1.00 out of 1.00

Which of the following statement is incorrect

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- ☐ b. In $\frac{\pi}{4}$ QPSK (Quadrature Phase Shift Keying), the maximum transition between two symbols yields to a phase shift of $\pm 135^\circ$
- ☐ c. In BPSK (Quadrature Phase Shift Keying), the maximum transition between two symbols yields to a phase shift of $\pm 180^\circ$
- ☒ d. In OQPSK (Quadrature Phase Shift Keying), the maximum transition between two symbols yields to a phase shift of $\pm 135^\circ$

The correct answer is:

In OQPSK (Quadrature Phase Shift Keying), the maximum transition between two symbols yields to a phase shift of $\pm 135^\circ$

◀ Quiz_Lab2_02.04.2022_12.10 PM to 12.20 PM

Jump to...

Mid-Semester Exam_CS/IT 314_11-03-2022_2.30 PM to 3.30 PM ▶

[Dashboard](#) / [Courses](#) / [Winter 2021-22](#) / [BTech Semester 6](#) / [Program Elective III](#) / [CS/IT314](#) / [General](#)
/ [Quiz Lab5 28.04.2022 4.40 PM to 4.45 PM](#)

Started on Thursday, 28 April 2022, 4:40 PM

State Finished

Completed on Thursday, 28 April 2022, 4:45 PM

Time taken 5 mins 1 sec

Marks 5.00/5.00

Grade 10.00 out of 10.00 (100%)

Question **1**

Complete

Mark 1.00 out of 1.00

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- ☒ a. Antennas
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- ☐ d. Wires

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Question **2**

Complete

Mark 1.00 out of 1.00

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The correct answer is:

True

Question **3**

Complete

Mark 1.00 out of 1.00

Sound Navigation and Ranging (SONAR) technology uses _____ for communication.

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- ☐ b. Microwaves
- ☒ c. Ultrasonic waves
- ☐ d. Infrared waves

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Ultrasonic waves

Question **4**

Complete

Mark 1.00 out of 1.00

The major constraint in a mobile sensor network (MSN) _____

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- ☒ b. Mobility Management
- ☐ c. Power Management
- ☐ d. Heterogeneity

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Mobility Management

Question **5**

Complete

Mark 1.00 out of 1.00

SYN flooding is an _____ layer attack.

- ☐ a. Network
- ☒ b. Transport
- ☐ c. Data Link
- ☐ d. Application

The correct answer is:

Transport

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