Wireless Network and Mobile Computing Test II

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Questions
supports the operation and maintenance of GSM.
BSS
NSS
O oss
Clear selection
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? S=k*N S=k/N S=N/k
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Envelope of the sum of two quadrature Gaussian noise signal obeys distribution.
Rayleigh
Inverse Gaussian
O Nakagami
Gamma
Clear selection
Which of the following combine packets for connection establishment and connection release with user data packets?
Transaction oriented TCP
O Indirect TCP
○ Snooping TCP
None of the above
Clear selection
manages the switching function in GSM.
O BSS
○ NSS
O oss
MSC
Clear selection

H

Which of the following is not a channel parameter?	
Coherence time	
Rms delay spread	
O Doppler spread	
O Bandwidth	
	Clear selection
Coherence time refers to	
Time required to attain a call with the busy base station	
Time required for synchronization between the transmitter and the	receiver
Minimum time for change in magnitude and phase of the channel	
None of the above	
	Clear selection
For a Rayleigh fading signal, mean and median differ by	
○ 2 dB	
● 10 dB	
O.55 dB	
○ 100 dB	
	Clear selection

Radio signals generally propagate according to the following management	echanisms:
Modulation, Amplification, Scattering	
Reflection, Diffraction, Scattering	
Amplification, Diffraction, Modulation	
Reflection, Amplification, Diffraction	
Adjacent channel interference can be minimized through	
Changing frequency of base stations	
Carefully filtering and channel assignments	
O Increasing number of base stations	
Increasing number of control channels	
	Clear selection
Co-channel reuse ratio depends upon	
Radius of the cell	
O Distance between the centers of the co channel cells	
Frequency allocation of nearest cells	
Both a and b	
	Clear selection

Which of the following is the drawback for cordless telephones?
Security
Wireless technology
Limited coverage area
O Mobile
Clear selection
The presents a consistent data format to the higher layers of the WAP protocol stack.
Wireless Application Environment(WAE)
Wireless Datagram Protocol(WDP)
Wireless Transport Layer Security(WTLS)
Wireless Transaction Protocol(WTP)
Clear selection
Which of the following statements is correct about the FHSS?
FHSS is a type of narrowband signal
O It uses the 78 frequency in the 2.4 GHz
O It is referred as Frequency Hopping Spread Spectrum
All of the above
Clear selection

Why wireless communication is used?
It enables billions of people to connect to the Internet
Lowers the cost of network infrastructure
Makes services more inexpensive
All of the mentioned
Clear selection
Which of the following technology distributes the coverage of the cell and extends
the cell boundary to hard-to-reach places?
Sectoring
Cell splitting
Micro cell zone concept
○ Scattering
Clear selection
What is the set of possible carrier frequencies in FH-SS?
O Hopset
Symbols
Chips
C Event
Clear selection

The GSM technology uses a combination of multiplexing techniques.
FDMA and TDMA
SDMA and FDMA
SDMA and TDMA
FDMA and CDMA
Other:
Clear selection
Consider the following statements: 1. Bluetooth can be used in fax, telephones, Global Positioning System (GPS) receivers, and video game consoles. 2. Bluetooth is used as a wireless communication with PC input and output devices like mouse, keyboard and printer. Which of the statements given above is/are correct? Only 1 Only 2 Both 1 and 2 Neither 1 nor 2 Clear selection
Antenna's efficiency is given by the ratio of
C Losses
Physical aperture to effective aperture
Signal power to noise power
Effective aperture to physical aperture
Clear selection

!

Computers were invented for performing only high-end useful computations. However, it is no understatement that they have taken over our world today. The internet, for example, is ubiquitous. Many believe that the internet itself is an unintended consequence of the original invention. With the advent of mobile computing on our phones, a whole new dimension is now enabled. One is left wondering if all these developments are good or, more importantly, required. Which of the statement(s) below is/are logically valid and can be inferred from the above paragraph?

- (i) The author believes that computers are not good for us.
- (ii) Mobile computers and the internet are both intended inventions
- (i) only
- (ii) only
- both (i) and (ii)
- neither (i) nor (ii)

Clear selection

I-TCP and Snooping TCP does not help much if a mobile host gets

- Out of coverage area
- Disconnected
- Battery power low
- None of the above

Clear selection

Mobile IP provides two basic functions
Route discovery and registration
Agent discovery and registration
IP binding and registration
None of the above
Clear selection
In a typical mobile phone system with hexagonal cells, it is forbidden to reuse a frequency band in adjacent cells. If 840 frequencies are available, how many can be used in a given cell?
O 280
O 210
140
O 120
Clear selection
Which one of the following can help in avoiding the interferences between the neighboring base station?
Assigning different group of channels
Using transmitters with the different power level
Using different antennas
All of the above
Clear selection

M-TCP wants to improve overall throughput to	
o to lower the delay	
to maintain end-to-end semantics of TCP	
o to provide a more efficient handover	
All of the above	
	Clear selection
Determine no of cells in cluster when i=2 and j=4	
7	
O 14	
O 28	
O 35	
	Clear selection
A very useful extension of TCP is the use of	
Buffering packets	
Congestion control	
Selective retransmission	
All of the above	
	Clear selection

Consider a wireless communication link between a transmitter and a receiver located in free space, with finite and strictly positive capacity. If the effective areas of the transmitter and the receiver antennas, and the distance between them are all doubled, and everything else remains unchanged, the maximum capacity of the wireless link
increases by a factor of 2
decreases by a factor of 2
remains unchanged
increases by a factor of root 2
The base station covers a specific area that is called a
Cell
Tessellate
Mobile station
O None of the above
Which of the reception problems below that is not due to multipath?
O Delayed spreading
Rayleigh fading
Random Doppler shift
○ Slow fading

Which of the following subsystem provides radio transmission between mobile station and MSC?
O BSS
O NSS
O oss
O BSC
Challenges of mobile computing include
O Low Security
Ad hoc Networking
Shared medium
All of the above
Traffic intensity is expressed in
○ Erlang
Erlangs /MHz /km2
O λ/ sec
O dB/sec

Which method of cellular network assists in minimizing the co-channel interference associated with the angle of degree?
Cell Splitting
Cell Sectoring
Cell Segmentation & Dualization
None of the above
Path loss in free space model is defined as difference of
Effective transmitted power and gain
Effective received power and distance between T-R
Gain and received power
Effective transmitter power and receiver power
Consider the following statements S1 and S2 :
S1 : A hard handover is one in which the channel in the source cell is retained and used for a while in parallel with the channel in the target cell.
S2: A soft handover is one in which the channel in the source cell is released and only then the channel in the target cell is engaged.
S1 is true and S2 is not true
S1 is not true and S2 is true
O Both S1 and S2 are true
O Both S1 and S2 are not true

What is a frequency reuse factor for N number of cells in a system?
○ N
N raised to 2
○ 2*N
○ 1/N
Capacity of a cellular system is directly proportional to
Number of cells
Number of times a cluster is replicated
Number of Base stations
Number of users
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 factor?
150 channels
O 600 channels
O 50 channels
O 85 channels

Which effect is widespread in adjacent-channel interference especially after the reception of a weak signal by a mobile user from the base-station?
Near-far effect
O Doppler's effect
Capture effect
C Kendall effect
Which of the following can be considered as the primary function of snooping TCP?
O To buffer data close to the mobile host to perform fast local retransmission in case of packet loss.
Congestion control
O Flow control
None of the above
If the system is designed with the usage of hexagonal-shaped cells, how are the base-stations located?
At the centre of cell
At the edge of cell
At the corner of the cell
All of the above

The network and switching subsystem includes which of the following entities. i. Mobile Switching Center(MSC) ii. Operation and Maintenance Center(OMC) iii. Visitor Location Register(VLR) iv. Authentication Center(AUC)
i, ii and iii only
ii, iii and iv only
i, iii and iv only
All i, ii, iii and iv
What does path loss exponent indicates?
Rate at which path loss decreases with distance
Rate at which path loss increases with distance
Rate at which path loss decreases with power density
Rate at which path loss increases with power density
Interference in frequency bands may lead to
○ Cross talk
Missed calls
O Blocked calls
All of the above

Which of the following problem occur due to adjacent channel interference?
○ Cross talk
Missed calls
O Blocked calls
Near-far effect
Which hand-off stage deals with the relinquishment of unnecessary frequency channels by keeping the availability for other mobile users?
Initialization
Resource Reservation
Call Execution
Call Completion
All transactions must satisfy the
Consistency
Availability
ACID Property
All of the above

Which of the following is the base of most mobile communications?
GSM
○ GPRS
○ CDMA
None of the above
The overlapping portion of two piconets is called
Piconet
O Ad hoc piconet
O Scatter net
All of the above
Relation between wavelength and carrier frequency is
$\lambda = c/f$
\(\lambda = c*f \)
$\lambda = f/c$
O λ=1/f

Consider the following statements: 1. Wireless Local Loop is used in the supply of broadband Internet to telecommunications customers. 2. Roaming abilities are very high in the Wireless Local Loop as compare with cellular network. Which of the statements given above is/are correct?
Only 1
Only 2
O both 1 and 2
neither 1 nor 2
Which of the following is associated with the handoff in first generation analog cellular systems?
O Breathing cell
C Locator receiver
МАНО
Cell dragging
What is the Doppler frequencyfor 1850MHz transmitter frequency and mobile is moving at 60Km/h?
O 370.37 MHz
○ 370.37KHz
○ 370.37Hz
37.03 KHz

State whether the following statements about the serving GPRS Support Node(SGSN) are True or False. i. A SGSN is at the same hierarchical level as the MSC. ii. SGSN sends queries to HLR to obtain profile data of GPRS subscribers.
i-True, ii-False
i-True, ii-True
i-False, ii-True
i. False, ii-False
If a 20MHz of total spectrum is allocated for a duplex wireless cellular system each simplex channel has 25 KHz RF bandwidth, find number of duplex channels
O 40
O 400
O 20
O 200
Which one of the following enables us to use the entire bandwidth simultaneously?
○ TDMA
○ CDMA
○ FDMA
All of the above

Determine frequency reuse ratio for cell radius 0.8km & co- channel cell distance 6.4Km
O 2
O 4
O 6
○ 8
The exponential growth of the congestion window in the slow start mechanism refers to
Increases the congestion window every time the acknowledgments come back
Oubles the congestion window every time the acknowledgments come back
Triples the congestion window every time the acknowledgments come back
None of the above
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