

ECP-383^{Q&As}

Ericsson Certified Associate - Radio Network Optimization

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QUESTION 1

Which element is used in maintaining a 4G VoLTE call leg?

- A. NodeB
- B. PSTN
- C. P-GW
- D. BSC

Correct Answer: A

QUESTION 2

What are two correct characteristics of TDD and FDD LTE systems? (Choose two.)

- A. TDD LTE systems use guard period intervals after downlink transmissions.
- B. FDD LTE systems require paired spectrum to separate uplink and downlink transmissions.
- C. TDD LTE systems use guard period intervals after uplink transmissions.
- D. TDD LTE systems require paired spectrum to separate uplink and downlink transmissions.

Correct Answer: BC

QUESTION 3

What is the recommended setting for the primaryCpichPower parameter according to Ericsson NDO guidelines?

- A. less than 33 dBm
- B. 36 dBm or more Independently of the maximum transmission power
- C. 8-10% of $\min[\text{maximumTransmissionPower}, \text{maxDIPowerCapability}]$
- D. 33 dBm independently of maximum transmission power

Correct Answer: C

QUESTION 4

Which two characteristics are true about 30 GHz spectrum compared to 2100 MHz spectrum? (Choose two.)

- A. It has improved in building penetration coverage.
- B. It has a reduced antenna separation distance required for effective MIMO.

- C. It has reduced in building penetration coverage.
- D. It has an increased antenna separation distance required for effective MIMO.

Correct Answer: BC

QUESTION 5

Which two statements about physical resource blocks (PRB)s are correct? (Choose two.)

- A. The maximum number of assigned PRBs for a TTI can exceed the number of available PRBs in the cell for that TTI.
- B. The DL PRB distribution is not affected by the number of active cell users in the cell.
- C. A higher throughput is expected when more DL PRBs are assigned to a user for a TTI.
- D. The number of PRBs assigned for a user is dependent on the number of active users in the cell.

Correct Answer: CD

QUESTION 6

Which two channel bandwidths are available in LTE? (Choose two.)

- A. 2.8 MHz
- B. 1.4 MHz
- C. 30 MHz
- D. 15 MHz

Correct Answer: BD

QUESTION 7

You are performing a drive test on a cluster carrying commercial WCDMA traffic using a drive testing tool. What are two metrics that would be detected using this tool? (Choose two.)

- A. packet throughput
- B. RNC processor load
- C. channel element utilization
- D. speech accessibility

Correct Answer: AD

QUESTION 8

Which statement describes uplink Discontinuous Transmission (DTX)?

- A. DTX is a method of saving battery power for the BTS by turning off the transmitter while "voice" is not present.
- B. DTX is a method of saving battery power for the MSC by turning off the transcoder while "voice" is not present.
- C. DTX is a method of saving battery power for the BSC by turning off the transcoder while "voice" is not present.
- D. DTX is a method of saving battery power for the MS by turning off the transmitter while "voice" is not present.

Correct Answer: D

QUESTION 9

Why is synchronized operation used in LTE TDD base stations?

- A. to allow downlink MIMO to be used
- B. to allow handovers to LTE FDD carriers
- C. to achieve good RACH timing accuracy
- D. to reduce interference between uplink and downlink

Correct Answer: D

QUESTION 10

Which two statements are correct about a Self-Organizing Network (SON)? (Choose two.)

- A. SON is a trace collection procedure for coverage prediction and reporting purposes.
- B. SON is a centralized solution that automatically collects data and modifies parameters using a predefined algorithm.
- C. SON is a drive test measurement tool for evaluation of network quality and new site location proposals.
- D. SON is a combination of functions that automatically change network behavior.

Correct Answer: BD

QUESTION 11

A user is making a call on an LTE network.

In this scenario, which encoding schemes are used?

- A. OFDMA in downlink, COMA in uplink
- B. CDMA in downlink, SC-FOMA in uplink

- C. SC-FDMA in downlink, OFDMA in uplink
- D. OFDMA in downlink, SC-FDMA in uplink

Correct Answer: D

QUESTION 12

How would you connect a Baseband module in the eNodeB to an Antenna Integrated Radio (AIR)?

- A. using optical fiber
- B. using a microwave link
- C. using an RJ-45 Ethernet cable
- D. using Bluetooth

Correct Answer: C

QUESTION 13

You have collocated sectors in your 2G network on the GSM 900 and the DCS 1800 bands. Reviewing the network level traffic distribution, you noticed that the GSM 900 sectors have five times more traffic than the DCS 1800 sectors.

Which two actions would improve load balancing between these bands? (Choose two.)

- A. adding additional GSM 900 sectors
- B. changing the handover margin
- C. expanding the site's transmission link
- D. changing the idle mode cell reselection parameter

Correct Answer: B

QUESTION 14

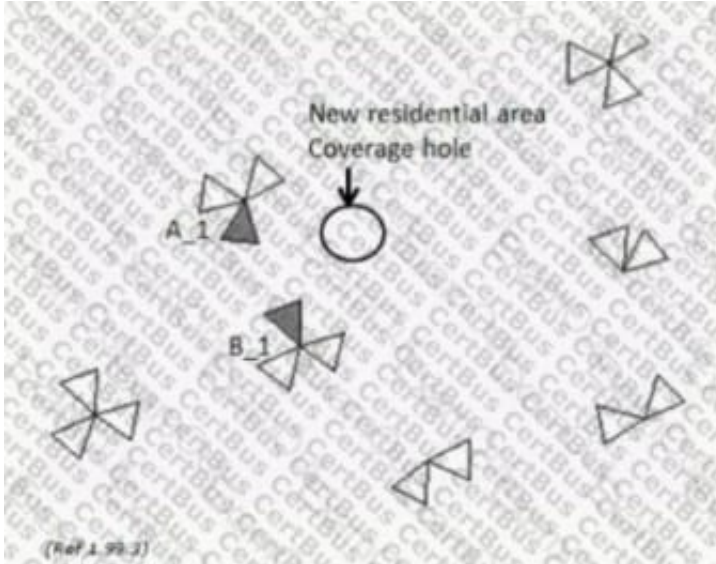
What are two benefits of using VoLTE for speech calls? (Choose two.)

- A. VoLTE allows the end user to remain connected to the 4G network while on a voice call.
- B. VoLTE provides the ability to refarm legacy spectrum for newer technologies.
- C. VoLTE maintains circuit switched functionality in a 4G network.
- D. VoLTE provides a dedicated spectral channel for voice that is physically separated from other packet services.

Correct Answer: AB

QUESTION 15

Review the exhibit.



A new residential area has recently been built showing a lack of 3G uplink coverage as shown in the exhibit. The terrain is flat and all the buildings in the area are 20 meters in height with no other relevant direct obstacles.

What should be applied to cells A_1 and B_1 to provide 3G service to the new area knowing that both cells have a soft handover (SHO) factor of 1.9?

- A. Increase the CPICH power.
- B. Increase the electrical downtilt.
- C. Reduce the antenna height.
- D. Change the azimuth.

Correct Answer: D

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