# ECP-383 Q&As

Ericsson Certified Associate - Radio Network Optimization

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**QUESTION 1**

What is a benefit of soft handover?

A. It decreases channel element usage.

B. It ensures successful handover among detected cells.

C. It reduces the connected user load of neighboring cells.

D. It decreases interference.

Correct Answer: B

**QUESTION 2**

You are using the Performance Measurements system for Ericsson WCDMA network analysis and must use predefined counters.

On which two levels would these counters be collected? (Choose two.)

A. the cell level

B. the TRX level

C. the RNC level

D. the BSC level

Correct Answer: AC

**QUESTION 3**

Several operators are using a Multi Operator Core Network (MOCN) with the Shared LTE RAN feature. Which element is shared by the operators in this scenario?

A. eNodeB

B. IMS

C. MME

D. SGW

Correct Answer: A

**QUESTION 4**

Which two statements are valid for Call Re-establishment in WCDMA? (Choose two.)

A. Call Re-establishment in WCDMA targets RL failures or RLC errors in the DL.

B. When Call Re-establishment in WCDMA is activated and after RL failure or an RLC unrecoverable error, the UE selects a new cell using the soft handover procedure.

C. Call Re-establishment in WCDMA improves the voice drop rate.

D. When Call Re-establishment in WCDMA is activated and after RL failure or an RLC unrecoverable error, the UE goes to idle mode.

Correct Answer: BC

**QUESTION 5**

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

A. NodeB

B. PSTN

C. P-GW

D. BSC

Correct Answer: A

**QUESTION 6**

Review the exhibit.

| Parameter | Parameter Description |
|---|---|
| *qQualMin* | Specifies the minimum required quality level(RSRQ) in the cell in dB. Corresponds to Qqualmin in TS 36304, sent in SIB1. Value 0 means that it is not sent and UE applies in such case the (Default) value of negative infinity for Qqualmin. |
| *qQxLevMin* | The required minimum received Reference Symbol Received Power(RSRP) level in the E-UTRA frequency for cell reselecton. Corresponds to parameter Qrxlevmin in 3GPP TS 36.304. This attribute is broadcast in S1B1. |

An operator\\'s LTE single layer network has a cell not carrying enough traffic. To increase the traffic carried by the cell, the operator decides to modify the Idle mode behavior of the cell. Values for the qRxLevMin and qQuaimin parameters are currently set to -120 dBm and -12 dB. Referring to the exhibit, which two configurations would be used to potentially increase the traffic carried by this cell? (Choose two.)

A. Set the qRxLevMin parameter to -117 dBm.

B. Set the qQualMin parameter to -15 dB.

C. Set the qQuaiMin parameter to -9 dB.

D. Set the qRxLevMin parameter to -123 dBm.

Correct Answer: BD

**QUESTION 7**

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 8**

In LTE, what is the definition of an A2 event?

A. The neighbor cell becomes better than the threshold.

B. The serving ceil becomes better than the threshold.

C. The serving cell becomes worse than the threshold.

D. The neighbor cell becomes worse than the threshold.

Correct Answer: C

**QUESTION 9**

A customer has Identified problems In an Indoor, medium loaded, urban area of a GSM/WCDMA collocated network. The problem seems to be in the uplink. The signal level received by the problematic site is high, and the downlink signal in the problematic area is acceptable. Which two actions would you use to troubleshoot the issue? (Choose two.)

A. Add a pico cell In the same RAT and frequency.

B. Run a passive inter-modulation (PIM) analysis.

C. Decrease base station transmission power.

D. Investigate external interference.

Correct Answer: BD

**QUESTION 10**

After an optimization meeting, an operator decides to double the transmitted power of an LTE cell. To test the effect of this change, a static test is performed before and after the change.

Which statement is correct in this scenario?

A. The RSRP received by the UE remains stable.

B. The variation of the RSRP will depend on the bandwidth of the cell.

C. The RSRP received by the UE is increased by six dB.

D. The RSRP received by the UE is increased by three dB.

Correct Answer: D

**QUESTION 11**

Which two statements about the Radio Connection Supervision (RCS) algorithm in LTE are correct? (Choose two.)

A. It selects the number of PRBs assigned to users for downlink and uplink.

B. It collects radio problems and inactivity information with the purpose to release resources.

C. It controls the modulation and coding scheme used in DL transmissions.

D. It supervises the radio connection between E-UTRAN and a UE in connected mode.

Correct Answer: BD

**QUESTION 12**

Which two statements correctly describe Single Carrier Frequency Division Multiple Access (SC-FDMA) as used in LTE systems using uplink SIMO? (Choose two.)

A. SC-FDMA allows simultaneous uplink transmissions on the same physical resource blocks.

B. SC-FDMA is beneficial because it avoids (nter-cell interference.

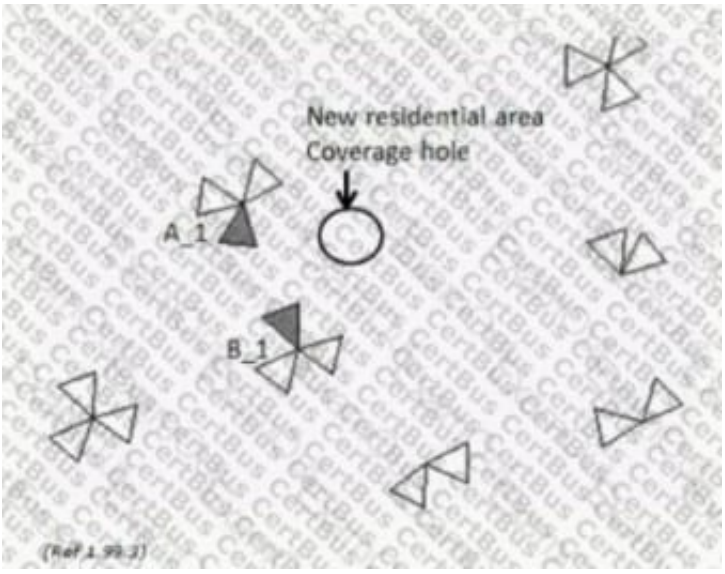
C. SC-FDMA separates uplink transmissions in the time and/or frequency domain.

D. SC-FDMA is beneficial because it avoids intra-cell interference.

Correct Answer: AD

**QUESTION 13**

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_l and 8_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

**QUESTION 14**

Which two interfaces are part of a standalone 5G New Radio (NR) architecture? (Choose two.)

A. X2

B. N2

C. N3

D. SI

Correct Answer: D

**QUESTION 15**

You are making a frequency plan for a new site and you need to create an interference matrix for new

GSM sectors.

In this scenario, which three inputs should you use? (Choose three.)

A. location area code plan

B. propagation model

C. type of terrain in the area

D. BAL measurements made by UEs

E. antenna height

Correct Answer: BCE