

# Newest SRAN-Radio-Network-Performance-Optimization Practice Questions - SRAN-Radio-Network-Performance-Optimization Exam Pdf & SRAN-Radio-Network-Performance-Optimization Prep Torrent

OPTIMIZATION  
 Course: 2023-2024, Fall semester  
 Final exam (08/01/2024, 15:00-18:00)

Write each problem in a different sheet. Put your name in every sheet.

**1. (25 points)**

- (a) (15 points) State the general optimization problem solved by the stochastic gradient descent (SGD) method, give 2 examples of optimization problems of this type, and give the general idea of the method.
- (b) (10 points) Give the definition of a stochastic gradient and prove that

$$\nabla f_{i(k)}(x^{(k)})$$

is a stochastic gradient for the function  $f(x) = \frac{1}{n} \sum_{i=1}^n f_i(x)$ ,  $f_i: \mathbb{R}^m \rightarrow \mathbb{R}$ , where the index  $i(k)$  is chosen uniformly at random from the set  $\{1, \dots, n\}$  and the descent step is done by

$$x^{(k+1)} = x^{(k)} - \alpha \cdot \nabla f_{i(k)}(x^{(k)}), \quad x^{(0)} = x_0$$

for some given learning rate  $\alpha > 0$  and starting point  $x_0 \in \mathbb{R}^m$ .

**2. (20 points)**

- (a) (10 points) Give the definition of a barrier function for contained optimization problems, provide explicit examples of barrier functions.
- (b) (10 points) State the general procedure of the barrier function method.

- 3. (15 points) Solve the following optimization problem with constraints using the Karush-Kuhn-Tucker conditions. Make sure you justify that the solution is the global minimum. (Hint: Check, what class of problem you are dealing with and invoke the corresponding theoretical result.)

$$\begin{cases} x^2 + 2y^2 - 4z \rightarrow \min \\ \text{subject to} & (0, -1, 5) \\ x - z \leq 4 & y - z - 6 \leq 0 \\ y + z \leq 4 & x - z_1 - 5 \leq 0 \end{cases}$$

So we can say that the SRAN-Radio-Network-Performance-Optimization practice questions are the top-notch MN: NCSS NPS - SRAN Radio Network Performance Optimization Certification Exam | GS40-NPS-SRPER-E-S03-2510 (SRAN-Radio-Network-Performance-Optimization) dumps that will provide you with everything that you must need for instant Nokia SRAN-Radio-Network-Performance-Optimization exam preparation. Take the right decision regarding your quick MN: NCSS NPS - SRAN Radio Network Performance Optimization Certification Exam | GS40-NPS-SRPER-E-S03-2510 (SRAN-Radio-Network-Performance-Optimization) exam questions preparation and download the real, valid, and updated SRAN-Radio-Network-Performance-Optimization exam dumps and start this journey.

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### Nokia MN: NCSS NPS - SRAN Radio Network Performance Optimization Certification Exam | GS40-NPS-SRPER-E-S03-2510 Sample Questions (Q25-Q30):

#### NEW QUESTION # 25

Which parameter defines the PRACH format ?

- A. totalNumberOfRAPreambles
- B. prachRootSequenceIndex
- C. prachConfigurationIndex
- D. msg1-FrequencyStart

**Answer: C**

Explanation:

The correct answer is B .

The prachConfigurationIndex defines the PRACH configuration, including the PRACH time-domain occasions and the associated PRACH format according to the PRACH configuration tables. In 5G NR, PRACH configuration is based on 3GPP-defined PRACH tables, where the configuration index maps to the PRACH format and PRACH occasion structure.

The other options have different meanings:

- A). msg1-FrequencyStart defines the frequency-domain starting position of PRACH occasion resources.
- C). prachRootSequenceIndex defines the root sequence used for PRACH preamble generation.
- D). totalNumberOfRAPreambles defines how many random access preambles are available.

Therefore, the parameter that defines the PRACH format is:

prachConfigurationIndex.

#### NEW QUESTION # 26

What is the role of admission control in 5G networks ?

- A. To increase the spectral efficiency
- B. To check whether there are enough resources for new connections
- C. To manage the modulation schemes
- D. To optimize the downlink throughput

**Answer: B**

Explanation:

The correct answer is D .

Admission control is responsible for deciding whether a new UE connection, bearer, service, or session can be accepted by the cell without negatively affecting existing users and services.

In 5G RAN, admission control checks available radio resources such as:

- \* PRB availability
- \* PDCCH/PUCCH capacity
- \* UE context capacity
- \* QoS requirements
- \* GBR or non-GBR bearer requirements
- \* Cell load and congestion status

It does not directly manage modulation schemes; that is handled by link adaptation. It also does not directly increase spectral efficiency or optimize downlink throughput, although good admission control indirectly protects user experience and avoids overload.

So the main role of admission control is:  
To check whether there are enough resources for new connections.

**NEW QUESTION # 27**

What is the mandatory prerequisite to implement DSS , or Dynamic Spectrum Sharing ?

- A. Same bandwidth for LTE and NR
- **B. RF module sharing**
- C. TDD configuration only
- D. Dedicated NR spectrum

**Answer: B**

Explanation:

The correct answer is D .

DSS allows LTE and 5G NR to share the same spectrum dynamically , instead of requiring a separate dedicated NR carrier. Therefore, dedicated NR spectrum is not mandatory. DSS is also not limited to TDD only; it is commonly used in FDD spectrum refarming scenarios as well. Public RAN references describe DSS as a mechanism where LTE and NR coexist in the same frequency band and share spectrum dynamically.

From an SRAN architecture point of view, the mandatory deployment condition is that the radio platform must support LTE and NR coexistence on the same radio resources. That requires RF module sharing or a DSS-capable shared radio configuration.

So the correct prerequisite is:

RF module sharing.

**NEW QUESTION # 28**

Regarding the Vo5G / IMS voice and video over 5G feature, which statements are correct?



- A. Supports IMS video flow with 5QI 2 .
- B. B and C
- C. A, B, and C
- D. Supports IMS voice and video over 5G in gNB for FR1, both TDD and FDD.
- **E. Supports IMS conversational voice with 5QI 1 .**
- F. A and B
- G. Supports IMS signaling QoS flows with 5QI 5 .
- H. A, B, C, and D

**Answer: E**

Explanation:

The correct answer is C: A, B, C, and D .

This question is about Vo5G / VoNR IMS service support in 5G SA. For IMS-based services over 5G, different QoS flows are used for signaling, voice media, and video media.

Statement A is correct.

The feature supports IMS voice and video over 5G in the gNB for FR1 , including both TDD and FDD deployments.

Statement B is correct.

IMS signaling commonly uses 5QI 5 . This QoS flow carries SIP/IMS signaling messages such as registration, session setup, modification, and release.

Statement C is correct.

IMS conversational voice uses 5QI 1 , which is the standardized GBR QoS identifier for conversational voice.

Statement D is correct.

IMS conversational video commonly uses 5QI 2 , which is associated with conversational video traffic.

### NEW QUESTION # 29

In a 5G cell , the following parameter has been modified: lowLatencyReservation = 15 .

Which percentage of UEs will be reallocated to a higher SR periodicity group whenever the threshold for moving to a higher SR periodicity group is reached?

- A. 0.85
- B. 0.50
- C. 0.15
- D. 1.00

**Answer: A**

Explanation:

The correct answer is C .

In 5G uplink scheduling, SR , or Scheduling Request , is used by the UE to request uplink resources when it has data to send. SR periodicity affects uplink latency and PUCCH capacity: shorter SR periodicity gives lower latency but consumes more control-channel resources, while longer SR periodicity saves resources but increases delay.

The parameter lowLatencyReservation = 15 means 15% of the UE/resource share is reserved for the low- latency SR periodicity group. When the load threshold is reached, the remaining portion can be moved to a higher SR periodicity group.

Calculation:

$$100\% - 15\% = 85\%$$

So the percentage of UEs that can be reallocated to a higher SR periodicity group is:

0.85 , or 85% .

### NEW QUESTION # 30

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