







# **NETWORKING (ANGOL NYELVŰ)**



#### Ismertető a feladathoz

The pandemic showed us the importance of telecommunication networks to keep us together and communicate.

Through technology leadership and trusted partnerships, Nokia deliver critical networks to help address global issues.

The following questionnaire will cover telecom specific networking topics.

Felhasznált idő: 00:00/10:00 Elért pontszám: 0/4

## 1. feladat 0/1 pont

What is the content of SDP? Which SDP can be valid?

#### Válasz

Option 1:

```
o=anonym 2890844526 2890842807 IN IP4 10.47.16.5
      i=SDP sample
      e=anonymous@nokia.com (anonymous)
      c=IN IP4 224.2.17.12/127
      m=audio 49170 RTP/AVP 0
Ez a válasz helyes, de nem jelölted meg.
```

Option 2:

```
o=anonym 2890844526 2890842807 IN IP4 10.47.16.5
s=SDP Exercise
i=SDP sample
```

```
e=anonymous@nokia.com (anonymous)

c=IN IP4 224.2.17.12/127

a=recvonly

m=audio 49170 RTP/AVP 0

m=video 51372 RTP/AVP 99

a=rtpmap:99 h263-1998/90000
```

Option 3:

```
v=0
o=anonym 2890844526 2890842807 IN IP4 10.47.16.5
u=http://www.nokia.com/sdp.pdf
e=anonymous@nokia.com (anonymous)
c=IN IP4 224.2.17.12/127
t=2873397496 2873404696
a=recvonly
m=audio 49170 RTP/AVP 0
m=video 51372 RTP/AVP 99
a=rtpmap:99 h263-1998/90000
```

Option 4:

```
v=0
o=anonym 2890844526 2890842807 IN IP4 10.47.16.5
s=SDP Exercise
i=SDP sample
u=http://www.nokia.com/sdp.pdf
e=anonymous@nokia.com (anonymous)
c=IN IP4 224.2.17.12/127
t=2873397496 2873404696
a=recvonly
m=audio 49170 RTP/AVP 0
v=1
t=2899887645 8874328321
```

#### Magyarázat

```
t=, s=, i= lines are mandatory
duplicated t=,v= lines are not allowed.

SDP - Session Description Protocol
https://en.wikipedia.org/wiki/Session_Description_Protocol
```

### 2. feladat 0/0 pont

If you want to build up a 5G network using ONLY 5G elements using 3GPP terms, what is the correct answer?

#### Válasz

Option 1:

AMF, NRD, UPF, SMF, AUSF, UDM, UDR, NEF, SMSF, NPC, SCP, CHF

Option 2:

AMF, NRD, UPF, SMF, AUSF, UDM, UDR, NEF, SMSF, NPC, SCP, CHF

Opt	ion 3:
	R, NRD, UPF, SMF, AUSF, UDM, UDR, NEF, SMSF, NPC, SCP, CHF válasz helyes, de nem jelölted meg.
Opt	ion 4:
AMF	, MSC, SGSN, GGSN, SMF, AUSF, UDM, UDR, NEF, SMSF, PCF, SCP, CHF
Opt	ion 5:
AMF	HLR, MME, UPF, SMF, AUSF, UDM, UDR, NEF, SMSF, PCF, SCP, CHF
Opt	ion 6:
AMF	, MSS, SIGU, UPF, SMF, AUSF, GPU, PEM, NEF, SMSF, PCF, SCP, CHF
Magyo	ırázat
Kedves	versemyzők!
A kérd	ést 0 pontosra állítottuk, mivel három válaszlehetőség ugyanazt a felsorolást tartalmazza.
Elnézé	st kérünk a kellemetlenségért!
Option	1 is wrong due to not 3gpp name ( using Nokia name )
• N	RD : Nokia Repository Director; NRD makes NRF and NSSF functionalities in 3GPP
• N	PC: Nokia Policy Control, PCF name is correct in 3GPP
Option	2 is wrong due to not 5G network element
• VI	R : Visitor Location Registry - 2G/3G elements
• p.	GW: LTE/4G element
Option	3 : correct
Option	4 : MSC, SGSN, GGSN – 3G
Option	5: HLR - 3G
	MME – 4G
Option	6: GPU – Graphics processing unit. non telco related abbreviation.
	PEM – public key, non telco related abbreviation
3. felo	ıdat 0/3 pont

Which of the following statements about network slicing are correct?

#### Válaszok

🗸 A 4G based core network allows a few network slices mainly based on dedicated core elements and specific radio and transport bearers Ez a válasz helyes, de nem jelölted meg.

✓ A 5G based core network allows a virtually unlimited number of network slices based on dedicated elements and shared portion of network with specific quality of services. Ez a válasz helyes, de nem jelölted meg.

				1.1						
	A 4G based core network allows u	n to 8	? network	Clice	connections	nar lisar	edilinment	· at a	GIVAN	time
	A 40 basea core network anows a		JIICLVVOIK	21166	COLLICCTIONS	pci usci	Cquipilicili	. at a	SIVCII	UIIIC

A 5G based core network allows a virtually unlimited number of network slice connectons per user equipment at a given time.

## Magyarázat

Articles about 5G slicing:

https://www.nokia.com/about-us/newsroom/articles/network-slicing-explained/

https://en.wikipedia.org/wiki/5G\_network\_slicing



Legfontosabb tudnivalók ☑ Kapcsolat ☑ Versenyszabályzat ☑ Adatvédelem ☑

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KÉSZÍTETTE C�NE

Megjelenés

• Világos ♦