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开始于	2024年03月27日 星期三 10:00
状态	已结束
完成于	2024年03月27日 星期三 10:13
用时	13 分钟
评分	**15.10**/20.00 (**75.5**%)

试题 1
正确
得分 2.00/2.00 分

5G will just increase the speed of data communications for IoT

选择一项：

○ 对

◉ 错 ✔

5G will bring much more than speed: lower latency, higher reliability, higher density, etc.

正确答案是"错"。

试题 2
正确
得分 1.00/1.00 分

RF and antenna are the easiest parts to design for any connected object

选择一项：

○ 对

◉ 错 ✔

RF and antenna are the trickiest parts to design and require rare skills

正确答案是"错"。

试题 3

正确

得分 1.00/1.00 分

Please check the relevant answer(s)

☑ SigFox data rates (flat fees) are lower than LoRaWAN's ✔

☐ SigFox is an open standard

☑ SigFox networks are deployed in 70+ countries ✔

☐ SigFox uses a very wide band technology to avoid interferences

☐ SigFox can send long messages (payloads) at low speed

Votre réponse est correcte.

正确答案是：

SigFox networks are deployed in 70+ countries,

SigFox data rates (flat fees) are lower than LoRaWAN's

试题 4

正确

得分 1.00/1.00 分

IoT edge computing helps to... (please select relevant proposition(s))

☐ Visualize great dashboards

☑ Keep things securely, on premises ✔

☐ Store large amount of data for in-depth analysis

☑ Make decisions locally ✔

☑ Compute and react in real time in the field ✔

Votre réponse est correcte.

正确答案是：

Compute and react in real time in the field,

Keep things securely, on premises,

Make decisions locally

试题 5

正确

得分 1.00/1.00 分

There are more B2C connected objects than B2B, but the main business value is driven by B2B objects

选择一项:

🔘 对 ✔

⚪ 错

正确答案是"对"。

试题 6

正确

得分 1.00/1.00 分

You have to be careful with network interferences when mixing various technologies (such as Bluetooth, RFID, WiFi, GPS, LoRaWAN or SigFox) in the same connected object design.

选择一项:

🔘 对 ✔

⚪ 错

正确答案是"对"。

试题 7

错误

得分 0.00/1.00 分

what are the criteria that matter the most for a connected meter for utility companies (gas, water, electricity)?

☑ Autonomy ✔

☑ Edge computing power ✖

☑ Throughput (speed) ✖

☐ Voice transmission

☑ Coverage ✔

Votre réponse est incorrecte.

see slidedeck

正确答案是:

Autonomy,

Coverage

试题 8
正确
得分 1.00/1.00 分

Sigfox profile: please check the relevant answer(s)

- ☐ SigFox can send long messages at low speed
- ☑ SigFox data rates (flat fees) are lower than LoRaWAN's ✔
- ☑ SigFox networks are deployed in 50+ countries ✔
- ☐ SigFox is an open standard since the beginning
- ☐ SigFox uses a very wide band technology to avoid interferences

Votre réponse est correcte.

正确答案是：
SigFox networks are deployed in 50+ countries,

SigFox data rates (flat fees) are lower than LoRaWAN's

试题 9
部分正确
得分 0.50/1.00 分

Please match the correct network types

SigFox	LPWAN	✔
LoRaWAN	LPWAN	✔
LTE-M	Cellular	✘
2G	Cellular IoT	✘

Votre réponse est partiellement correcte.

您已正确选择 2 个。
正确答案是：
SigFox → LPWAN,

LoRaWAN → LPWAN,

LTE-M → Cellular IoT,

2G → Cellular

试题 10
部分正确
得分 1.20/2.00 分

Please match the relevant technologies and applications (use-cases)

Navigo pass or payment	NFC	✔
Very accurate indoor tracking of tools	Bluetooth	✘
Remote surgery	UWB	✘
Boat tracking on oceans	Satellite	✔
Metering / gas, electricity, water	LoRaWAN	✔

Votre réponse est partiellement correcte.

您已正确选择 3 个。
正确答案是：
Navigo pass or payment → NFC,

Very accurate indoor tracking of tools → UWB,

Remote surgery → 5G,

Boat tracking on oceans → Satellite,

Metering / gas, electricity, water → LoRaWAN

试题 11
正确
得分 1.00/1.00 分

Please check the B2B IoT markets

- ☐ Smart Watch / sports
- ☑ Industry 4.0 ✔
- ☑ Smart Agri ✔
- ☑ Smart Cities ✔
- ☐ Smart home

Votre réponse est correcte.

正确答案是：
Industry 4.0,

Smart Cities,

Smart Agri

试题 12

错误

得分 0.00/2.00 分

please sort the various steps of the 5G roadmap

1	NB-IoT	✖
2	mMTC - massive machine type communications	✖
3	URLLC - ultra reliable, low latency communications	✖
4	eMBB - enhanced mobile broadband	✖

Votre réponse est incorrecte.

正确答案是:

1 → eMBB - enhanced mobile broadband,

2 → URLLC - ultra reliable, low latency communications,

3 → mMTC - massive machine type communications,

4 → RedCap - reduced capacity

试题 13

正确

得分 1.00/1.00 分

LoRaWAN's spreading factor can vary from SF7 to SF12 to achieve the best trade-off between reachability, throughput, and energy savings

选择一项:

◉ 对 ✔

◯ 错

正确答案是"对"。

试题 14

正确

得分 1.00/1.00 分

The RF (radio frequency) and antenna are the easiest parts to design for any connected object.

选择一项:

◯ 对

◉ 错 ✔

RF and antenna are the trickiest parts to design and require rare skills

正确答案是"错"。

试题 15

部分正确

得分 1.40/2.00 分

5G Profile - please select the relevant answer(s)

☑ 5G has been designed and roadmapped by the 3GPP ✔

☑ 5G latency will be lower than 10 ms in URLLC mode ✔

☑ 5G antennas implement a very efficient beam forming principle ✔

☑ 5G will combine eMMB, URLLC... in different slices ✔

☑ 5G can use multiple spectrums, around 700MHz, 2.6GHz, 3.5GHz and 26GHz ✔
LTE-M and NB-IoT are « 5G ready »

☑ 5G will replace 4G asap ✘

☐ 5G is only available as public, managed network, not private networks (unlike LoRaWAN

Votre réponse est partiellement correcte.

您选择了太多的选项。

正确答案是：

5G will combine eMMB, URLLC... in different slices,

5G has been designed and roadmapped by the 3GPP,

5G latency will be lower than 10 ms in URLLC mode,

5G antennas implement a very efficient beam forming principle,

5G can use multiple spectrums, around 700MHz, 2.6GHz, 3.5GHz and 26GHz
LTE-M and NB-IoT are « 5G ready »

试题 16
正确
得分 1.00/1.00 分

Connected objects often combine various types of sensors

选择一项：

◉ 对 ✔

○ 错

Connected objects often combine sensors - such as temperature, humidity, pressure, light, etc.

正确答案是"对"。

◄ IoT - ThG - 3of3

跳至...

Lecture 1 - Introduction and Basics Arduino ►