Universidade de Aveiro, Comunicações Móveis, 2022/2023

Exam questions exemples

The following document portrays examples of 3 types of possible exam questions:

- Brief answer questions: the student should answer with very few phrases, around 5-6 lines
- Medium detail questions: the student should answer with some detail, going from 5/6 lines to a full page
- Development questions: the student should provide an answer to the complex page in about a full page

The examples are merely indicative. There is no obligation from the teachers to provide an exam with any mandatory number of any of the question types.

Brief answer questions:

1) With the evolution of mobile network generations, why have we started to witness a reduction in cell size?
2) Why are there four address fields in WiFi packet headers?
3) What kind of issues do you think that the usage of Network Function Virtualization can bring to telecommunications networks?
4) What is the purpose of Guaranteed Time Slot in Zigbee?

Medium detail questions:

1) Why is it frequently said that BLE is not Bluetooth?
2) Why are sensors connected to gateways and not directly to the Internet?
3) Why was LoRaWAN developed for LoRa? Wasn't LoRa enough?

Development questions:

1) Which fundamental aspects would you use to characterize 5G networks?
2) Which could be the reasons to prefer using BLE instead of ZigBee for a sensor network?