[DT 2025] Quiz 4 - 23/4/2025 - Big data, Data formats, smart objects

Time available 10 minutes
All questions must be answered and then the form submitted

Obbligatoria			
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Questo modulo registrerà il tuo nome, inserire il nome.			
1. Enter your Last name and Name *			
2. Which is the main difference between RFID and NFC technology? * (1 punto)			
NFC is peer-to-peer			
NFC is used on a cell phone			
NFC allows processing data			
3. What would you use to locate a truck in a fleet management application? * (1 punto)			
Beacons			
) beacons			
RFID			
○ GPS			
4. Where do you usually associate information on an object corresponding to an ID? * (1 punto)			
in the information system			
in the ID structure			
in the sensors data			

5. Data in JSON are represented * (1 punto)
as strings
as tables
with a format based on indentation
6. A time series is * (1 punto)
a conceptual data structure
a series of values with an associated timestamp
a function in time
7. Which of the following is a definition for hierarchical data structures * (1 punto)
data structures with multiple values
data structures with nested constructs
data structures that generalize data
8. Given the following json code in file persons.json: [{
"firstName": "John", "lastName": "Smith",
"city": "Milan", "phoneNumber": "646 555-4567"
}, {
"firstName": "Barry", "lastName": "White",
"phoneNumber": "646 444-4567"
}]
and the Python code:
<pre>import pandas as pd df = pd.read_json('persons.json') df.loc[0]['city']</pre>
Executing the code, you get the following answer: * (2 punti)
nan (or NaN)
the json code is not valid
"Milan"

9.	How can multiple values for an attribute be modeled in relational databases? For instance, if a person has an id, lastname and firstname and several phone numbers. * (1 punto)	
	they cannot be modeled	
	an additional table is needed to model multiple values	
	a list can be inserted as the attribute value	
10.	In geoJSON the geometry represents	
	* (1 punto)	
	a set of points	
	predefined types of geometrical objects	
	a point	
11.	Which of the following statements is true about beacons * (1 punto)	
	a beacon uses BLE	
	a beacon is usually a mobile object	
	a beacon transmits data about the object	
12.	In a time series * (1 punto)	
	the time points always indicate the time of occurrence of the events	
	the time points always indicate the times of the recording of the events	
	the time points may indicate the time of the events or the times of the recording of the events	
13.	In an object of type Feature in geoJson	
	* (1 punto)	
	properties can be an empty set	
	at least one property must be provided	
	properties can be omitted	

14. Why is magnetic induction needed in a passive RFID? * (1 punto)		
o to process data		
to operate the RFID when the battery is exhausted		
to activate the circuit		
15. Localization of objects using RFID technology * (1 punto)		
is based on the position of the transceiver		
is based on the position transmitted by the object		
is not possible		

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