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Question Paper Code: 39211

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

Elective

Computer Science and Engineering

01UCS911 - INTERNET OF THINGS

(Regulation 2013)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

PART A - $(10 \times 2 = 20 \text{ Marks})$

- 1. What do you meant by internet of things?.
- 2. Define Mobile Internet.
- 3. What is Arduino?
- 4. What are the basic differences between sensors and actuators?
- 5. What are software agents?
- 6. Write any two key functionalities that are required to enable the interaction between items in Autonomy.
- 7. Define Ontology.
- 8. Write short note on Ontology.
- 9. What is meant by content negotiation?
- 10. Write brief note on Web of Things.

PART - B (5 x 16 = 80 Marks)

11. (a) Explain the main concepts and essential things used in Internet of Things. (16)

	(b)	Explain in detail about the following communication technologies of I (i) RFID (ii) Zigbee (iii) Wi-Fi and (iv) Mobile Internet.	IOT: (16)
12.	(a)	Explain in detail about the examples and working principles of sensors and actua	tors. (16)
		Or	
	(b)	Explain the working principle of sensors and actuators.	(16)
13.	(a)	Explain the data synchronization and clustering principles used in Internet of Thi	ings. (16)
		Or	
	(b)	Explain the various technical requirements for satisfying the new demand production.	s in (16)
14.	(a)	Explain the middleware technologies used in DiY Internet of Things interoperability.	for (16)
		Or	
	(b)	Briefly explain about the application of Ontology engineering in the internethings.	et of (16)
15.	(a)	Explain in detail about the designing of RESTful smart things.	(16)
		Or	
	(b)	Explain how an automated elderly person monitoring platform is developed under the second sec	ising (16)