Reg. No. :

Question Paper Code: 31285

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Elective

Computer Science and Engineering

01UCS911 - INTERNET OF THINGS

(Regulation 2013)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. What do you meant by internet of things?

2. Define Mobile Internet.

3. What is Arduino?

4. List out the hardwares that can support IOT.

5. What are software agents?

6. Write short note on EPC Networks.

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)

Or

(b) Explain in detail about the following communication technologies of IOT: (i) RFID (ii) Zigbee (iii) Wi-Fi and (iv) Mobile Internet. (16)

12. (a) Explain in detail about the examples and working principles of sensors and actuators. (16)

Or

(b) Write a program for the demonstration of automated sensor based application. (16)

13. (a) Explain the concepts and principles used in enabling autonomy and agility in Internet of Things. (16)

Or

(b) Explain the various technical requirements for satisfying the new demands in production. (16)

14. (a) Explain the ontology engineering principles used in Internet of Things. (16)

Or

(b) Explain in detail about the DiY service creation framework with diagram. (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 using Internet of Things. (16)

————————————

31285