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P.E.S. College of Engineering, Mandya - 571 401
(An Autonomous Institution affiliated to VTU, Belagavi)
Seventh Semester, B.E. - Information Science and Engineering
Semester End Examination; Dec - 2017/Jan - 2018
Internet of Things

Time: 3 hrs *Max. Marks: 100*

Note: Answer **FIVE** full questions, selecting **ONE** full question from each unit.

UNIT - I

1 a.	What is the role of IPV6? Describe the advantage of IPV6.	10
b.	Explain the elements of device and gateway domain.	6
c.	What is the network domain composed of?	4
2 a.	Explain advanced metering infrastructure.	10
b.	What is the communication methods used in E-Health?	4
c.	What are the benefits of MBAN technology?	6

UNIT - II

3 a.	Explain different automotive application.	8
b.	Describe the technologies that can be deployed in integrated open-air surveillance.	8
c.	What is the design constrains in M2M node?	4
4 a.	Describe various approaches of identifying the object of IOT.	10
b.	With the neat diagram explain RFID reader operation.	6
c.	Write a note on sensor technology.	4

UNIT - III

5 a.	Explain abstract layer of CoAP.	10
b.	What are the main features of CoAP?	6
c.	Explain request / response model.	4
6 a.	Depicts the M2M service model.	10
b.	Explain 6LOWPAN and ZigBee IP (ZIP).	10

UNIT - IV

7 a.	What are network nodes? Explain various IOT application respect to secured communication through WSN.	10
b.	Explain components of RFID.	10
8 a.	Describe the different RFID applications.	10
b.	Explain the different RFID tag classes.	10

UNIT - V

9 a.	Discuss on the case study of RTE in France using smart grid.	10
b.	Explain demand response for transmission system operation.	10
10 a.	Explain vehicle charging standards.	10
b.	What is an electronic vehicle charge? Discuss any one use case.	10

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