

28/11/17

(3 hours)

[80 Marks]

N.B.:

1. Question No.1 is compulsory.
2. Attempt any **Three** questions out of remaining **Five** questions.
3. Figures to the right indicate full marks.
4. Assume any suitable data wherever required but justify the same.

- Q.1 a) Write a short note on M2M technology. 5  
b) Explain in short steps involved in Prototype design of IoT. 5  
c) Write a short note on Raspberry Pi Programming for IoT. 5  
d) Write a note to give abstract view of Internet of Things. 5
- Q.2 a) Write a detail note on Difference between RFID and NFC. 10  
b) Explain Arduino, sensors and interfacing for IoT application. 10
- Q.3 a) Explain Wireless Sensor Network in IoT paradigm. 10  
b) List IoT applications and explain in detail. 10
- Q.4 a) Write a note on importance of networking protocol LoWIPV6 in IoT context. 10  
b) Explain in detail IP addressing protocol MQTT. 10
- Q.5 a) Explain importance of data analytics using different platforms to develop smart objects. 10  
b) Explain in detail Secured Communication for IoT using WSN. 10
- Q.6 Write a detail note on (any two) 20  
a) Smart homes and IoT technologies.  
b) Case study on Intelligent Transport (assume suitable data)  
c) Composition Models for Web of Things.