

# Question Paper

Exam Date & Time: 11-Jan-2019 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

SCHOOL OF INFORMATION SCIENCES  
FIRST SEMESTER MASTER OF ENGINEERING - ME (EMBEDDED SYSTEMS) DEGREE  
EXAMINATION (MAKE-UP) - JANUARY 2019

### Internet of Things [ESD 615.9]

Marks: 100

Duration: 180 mins.

### MAKEUP JAN 2019

**Answer all the questions.**

- 1) Discuss different application layer protocol in IoT. (10)
- 2) Describe the Enabling Technologies in IoT (10)
- 3) Explain WebSocket-based communication API (10)
- 4) Explain the differences between M2M and IoT? (10)
- 5) Explain with a neat diagram IoT Design Methodology (10)
- 6) Explain file handling concept in Python (10)
- 7) What is Socket? Explain Server Socket Method and Client Socket Methods in Python. (10)
- 8) Explain Bluetooth general packet format. (10)
- 9) Briefly describe the General frame structure of ZigBee. (10)
- 10) Explain the main design objectives considered in the design of sensor networks. Discuss Rumor Routing Protocol (10)

-----End-----