

Question Paper



MANIPAL UNIVERSITY

**SCHOOL OF INFORMATION SCIENCES (SOIS)
SECOND SEMESTER MASTER OF ENGINEERING - ME (EMBEDDED AND
WIRELESS TECHNOLOGY)**

DEGREE EXAMINATION - APRIL / MAY 2017

Wednesday, 26, 2017

Time : 10:00 AM - 1:00 PM

IoT Architecture and Networking [EWT 618]

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) With neat examples, explain a) PEGASIS b) LEACH (5+5) (10)
- 2) With neat examples and diagram, explain a) CHAIN based ROUTING b) BINARY Scheme. (5+5) (10)
- 3) Explain the architecture of Wireless Sensor Network with a neat diagram. (10)
- 4) With neat diagrams, explain a) IOT LEVEL - 1 b) IOT LEVEL-2 (5+5) (10)
- 5) List and explain the characteristics of an IOT. (10)
- 6) A. Define IOT (3) (10)
B. Write a program to blink the LED for an SKY MOTE using CONTIKI. (7)
- 7) With a neat diagram, explain IOT functional blocks. (10)
- 8) List the components of the IOT system. Explain briefly. (10)
- 9) With a neat figure, explain the Abstract Layering of COAP. (10)
- 10) Explain the features of CONTIKI OS. (10)