Question Paper

Exam Date & Time: 23-Apr-2018 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SCHOOL OF INFORMATION SCIENCE (SOIS) SECOND SEMESTER Master of Engineering - ME (Embedded & Wireless Technology)

DEGREE EXAMINATION - APRIL 2018

Monday, 23 April 2018 Time: 10:00 am to 1:00 pm

IoT Architecture and Networking [EWT 618]

Marks: 100 Duration: 180 mins.

Answer all the questions.

1)	With neat examples and diagram, explain a) SPIN b) LEACH (5+5)	(10)
2)	A. With a neat diagram, explain a) Centroid localization b) Weighted centroid localization. (2+3) B. What do mean by coarse grained and fine grained localization. Explain the significance. (5)	(10)
3)	List and explain the Key Design Challenges of an Wireless Sensor Networks.	(10)
4)	With neat diagrams, explain a) IOT LEVEL - 3 b) IOT LEVEL - 4 (5+5)	(10)
5)	With a neat diagram explain the IOT protocol structure.	(10)
6)	Explain briefly a) HTTP b) COAP c) WebSocket (3+4+3)	(10)
7)	With a neat diagram, explain a) Request - Response Model b) Publish-Subscribe model. (5+5)	(10)
8)	On what key questions, the localization issues and techniques are classified. List and Discuss.	(10)
9)	Explain a) Reliable Message Transmission b) Unreliable Message Transmission with respect to COAP. (5+5)	(10)
10)	What is RSSI? Write a neat program to measure the RSSI value of a node in CONTIKI COOJA. (3+7)	(10)

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