Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019
Wireless Networks

Time: 3 hrs.　　　　　　　　　　　　　　　　　　　　　　Max. Marks:100

Note: *Answer any FIVE full questions, selecting*
atleast TWO questions from each part.

PART – A

1　a. Explain wireless communication system in detail along with its limitation. **(10 Marks)**
　　b. Explain wireless communication channel specification. **(07 Marks)**
　　c. The transmitted power of a transmitter is 10mw, operating at a frequency 85MHz, A receiver captures data with the power $0.1\mu W$. Find the distance between transmitter and receiver. **(03 Marks)**

2　a. Explain different wireless networking issues. **(08 Marks)**
　　b. Explain wireless switching technology. **(08 Marks)**
　　c. Mention various wireless communication problems. **(04 Marks)**

3　a. Explain the properties of wireless body area network. **(05 Marks)**
　　b. Explain :　i) S – MAC　ii) T – MAC. **(10 Marks)**
　　c. Explain in brief IEEE 802.15.1. **(05 Marks)**

4　a. Explain IEEE 802.15.3, HR-WpAN. **(10 Marks)**
　　b. Explain Bluetooth protocol stack used for WpAN. **(10 Marks)**

PART – B

5　a. Explain the design requirements of WLAN. **(10 Marks)**
　　b. Explain FHSS pMD transmitter and receiver. **(10 Marks)**

6　a. With a neat diagram explain LMDS system. **(10 Marks)**
　　b. Explain wireless ATM. **(06 Marks)**
　　c. Give the advantages and disadvantages of MMDS and LMDS. **(04 Marks)**

7　a. Explain GSM network architecture mentioning it silent features. **(10 Marks)**
　　b. Explain CDMA 2000 network architecture. **(10 Marks)**

8　a. Explain quantitative features and qualitative features of wireless Ad-Hoc network. **(10 Marks)**
　　b. Describe WSN architecture with a neat diagram. **(10 Marks)**

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