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Total Number of Pages : 01

B.Tech
FECE6402

7th Semester Back Examination 2018-19
PRINCIPLES OF MOBILE COMPUTING

BRANCH : AEIE, ECE, EIE, ETC, IEE

Time : 3 Hours

Max Marks : 70

Q.CODE : E338

Answer Question No.1 which is compulsory and any FIVE from the rest.
The figures in the right hand margin indicate marks.

- Q1** Answer the following questions : (2 x 10)
- a) Explain how mobility management is carried out in PCS system.
 - b) Mention advantage and disadvantage of mobile computing.
 - c) Mention two differences between 2G and 3G network.
 - d) What are the basic transmission technologies used for WLAN? Mention the advantages of WLAN.
 - e) Give a comparison between Bluetooth piconet and scatternet.
 - f) Which component of GSM System maintains security?
 - g) Compare the IEEE 802.11a and IEEE 802.11b standards.
 - h) Write different types of satellites and their uses.
 - i) What is the fundamental difference between WML and HTML?
 - j) Write the advantages that IPV6 offer for mobility.
- Q2** a) Discuss Global Star Satellite System with a neat diagram. (5)
b) Draw the Bluetooth protocol stack architecture and explain the functions of all the protocols. (5)
- Q3** a) Explain infrastructure based and ad-hoc network architecture of IEEE 802.11 WLAN. (5)
b) What is Wireless Markup Language? Mention its features. (5)
- Q4** a) Mention the features of IRIDIUM satellite system. (5)
b) Describe the process of accessing a website using WAP-enabled device and list the applications of WAP. (5)
- Q5** a) Explain the architecture of wireless local loop with a neat diagram. (5)
b) Explain briefly the function of network and switching subsystem in GSM. (5)
- Q6** a) Draw the architecture of a PCS system and explain all component of it. (5)
b) Explain the functions of virtual private network. What are the merit and demerit of VPN? (5)
- Q7** With a neat diagram explain the GPRS architecture. Explain how it facilitates different type of services like mobility management and signalling. (10)
- Q8** Write short answer on any TWO : (5 x 2)
- a) WAP gateway
 - b) IMT-2000
 - c) CDMA-2000
 - d) Handover