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Total Number of Pages : 02

B.Tech
PET8J001

8th Semester Regular Examination 2018-19

MOBILE COMPUTING

BRANCH : ECE, ETC

Max Marks : 100

Time : 3 Hours

Q.CODE : F028

Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any TWO from Part-III.

The figures in the right hand margin indicate marks.

Part- I

Q1 Only Short Answer Type Questions (Answer All-10) (2 x 10)

- Write the different transmission technologies used in IEEE 802.11 WLAN
- State the basic difference between handoff and roaming
- What are the different services provide in GSM? state the service reference model for GSM
- What are the characteristics of pervasive web applications?
- Write the basic difference between IMEI and IMSI
- Define Care Of Address (COA) and what are the two different possibilities for the location of COA?
- How does GPRS architecture differ from GSM?
- Write the different classes of Wireless Transaction Protocol (WTP)?
- List out the number of satellite associated with GLOBALSTAR and IRIDIUM satellite network
- What are three different types technologies used in WLL

Part- II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)

- What is anchor MSC? Explain the role of anchor MSC in path minimization
- Explain the role VLR for roaming management in GSM
- What is the importance of signaling architecture in GSM for telecommunication? Illustrate the protocol architecture in public land mobile network (PLMN)
- What is WAP gateway? Discuss the architecture of WAP gateway
- Explain the working principle of GLOBALSTAR mobile satellite network architecture
- Differentiate between infrastructure and non-infrastructure network in IEEE 802.11 WLAN
- Explain the roaming management in PCS
- Differentiate between CDMA 2000 and WCDMA
- Explain the functions of Virtual private Network (VPN) .What are merit and demerit of VPN
- Explain three tier JAVA web applications that use servlets and JSP
- What is WLL? Illustrate the working principle of WLL
- Explain the IP packet delivery to and from mobile node in mobile IP

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3** 210 What is the different between MSC and Gateway-MSC? Describe the GSM system architecture with suitable diagram (16) 210
- Q4** How does the Bluetooth device discover the Bluetooth network? Explain the protocol followed for registering a Bluetooth device in Bluetooth network (16)
- Q5** What is WAP? What do you mean by WAP profile? Describe the WAP protocol stacks explaining the functionalist of different layers (16)
- Q6** What is the important role of GGSN for external data network? Analyze the data packet routing for GPRS (16)