

CBCS Scheme: 2015-16

MODEL QUESTION PAPER

15 EI/BM/ML 661

Sixth Semester B.E. Degree Examinations

Mobile Communication

Time: 3 Hrs

Max. Marks: 80

Note: Answer FIVE FULL Questions, selecting ONE FULL Question from each Module

Question Number	Question	Marks Allotted
Module -1		
1	(a) Compare the different radio frequency spectrum that is used for data transmission.	04
	(b) With the help of diagram explain coding & spreading of following user's data using CDMA technique User #1 Data 0 0 , key code = 0 1 0 1 User #2 Data 1 0 , key code = 0 0 1 1	08
	(c) Explain the concept of spread spectrum.	04
2	(a) Discuss the various types of multiplexing mechanisms used in communication system	08
	(b) Discuss the different path loss of radio signals.	08
Module -2		
3	(a) With a neat sketch explain the GSM system architecture.	08
	(b) Discuss & compare the system architecture of GPRS & DECT	08
4	(a) With a neat diagram explain the UMTS domain & interfaces	06
	(b) Discuss the various security services offered by GSM network.	06
	(c) Compare the different types of Handover in GSM.	04
Module -3		
5	(a) Compare the advantages & disadvantages of GEO, LEO, MEO	08
	(b) How do inclination & elevation determine the use of a satellite?	04
	(c) Explain the Routing of data in satellite communication system.	04
6	(a) What do you mean by DAB? With a neat block diagram explain the components of a DAB sender.	08
	(b) How the DVB can be used for high speed internet access?	08
Module -4		
7	(a) With a neat diagram explain the system architecture of 802.11 wireless LAN.	08
	(b) Explain the important features of HiperLAN2.	08
8	(a) Describe the working of physical layer in HiperLAN2 protocol stack.	08
	(b) Explain the formation of Bluetooth piconet & Scatternet.	08
Module -5		
9	(a) Explain the various requirements of Mobile –IP.	08
	(b) With a neat diagram explain the IP Packet delivery to & from the mobile node.	08
10	(a) What you mean by snooping TCP? Explain the advantages of snooping TCP.	08
	(b) Explain the configuration parameter to adapt TCP to wireless environments.	08