

CBCS Scheme: 2017-18
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

Q. No.	Questions	Marks
MODULE 1		
1	a Highlight the problem of additional signal propagation effects during the radio wave transmission	8
	b Differentiate between (i) frequency division multiplexing and (ii) code division multiplexing with neat pictorial representations	8
2	a With the help of a diagram & example explain the coding & spreading of a DATA using CDMA technique.	8
	b Discuss the concept of frequency hopping spread spectrum with neat illustrations	8
MODULE 2		
3	a Discuss the various security algorithms GSM provides	10
	b Categorize the various handovers in GSM	6
4	a Explain with supporting pictures the protocol architecture of DECT	8
	b Neatly describe the functional architecture of a GSM system	8
MODULE 3		
5	a Elaborate with a neat sketch the various satellite orbits mentioning their advantages and disadvantages.	8
	b Categorize the various handovers in the satellite system to establish a communication	8
6	a Describe the components of a DAB sender with a neat figure	8
	b Discuss how DVB provides high speed internet access	8
MODULE 4		
7	a Explain the Dynamic host configuration protocol with supporting sketch.	8
	b Elaborate on the concept of dynamic source routing algorithm. With the help of an example discover the route from source to Destination at a given time.	8
8	a Describe with a neat sketch the Bluetooth protocol stack	8
	b Explain with neat diagram the Bluetooth security components and protocols	8
MODULE 5		
9	a Elaborate on the working of I-TCP mentioning its advantages and disadvantages	8
	b Discuss the concept of IP-IP encapsulation and generic routing encapsulation	8
10	a What is triangular routing problem in a non-optimized mobile-IP? With the help of neat sketches, discuss the solution using optimized mobile-IP	8
	b Explain the characteristics to be considered while adapting TCP over 2.5G/3G wireless network	8