Hall Ticket Number :									
Code: 5G381 R-15									
IV B.Tech. II Semester Regular Examinations March 2019									
Cellular & Mobile Communications									
(Electronics & Communication Engineering) Max. Marks: 70 Time: 3 Hours									
-		er all five units by choosing one question from each unit (5 x 14 = 70 Mark *********							
		UNIT–I							
1.	a)	What are the limitations of conventional mobile telephone system?	4M						
	 b) Describe the principle of Operation of cellular mobile system and explain the Cellular Concept with neat diagram. 								
•	、	OR							
2.	a)	Derive the desired C/I for a Normal case in an Omni directional antenna system.	8M 6M						
	b)								
3.	a)	UNIT-II What are the different types of Non co-channel interference in a cellular system?							
0.	,	Explain	10M						
	b)	Explain the effects of antenna design Parameters for the interference in a cellular system OR							
4.	a)	Write short notes on (i) Space Diversity (ii) Time Diversity	6M						
	b)	Discuss how antenna height effects the coverage and interference of cellular system	8M						
		UNIT-III							
5.	a)	Explain the mobile radio propagation over water and flat open area and write the general expression.	8M						
	b)	Describe the effect of antenna height in near and long distance mobile propagation. OR	6M						
6.	a)	Explain the sum-and-difference patterns and their synthesis in detail.	8M						
	b)	Explain the design aspects and merits of an omni-directional antenna in cell site.	6M						
7.		What is the importance of frequency management chart? Give the structure of the channels in 800 MHz system with frequency ranges?	14M						
8.	a)	Describe in detail the adjacent channel assignment using omni-directional and directional antennas	8M						
	b)	Explain how channel sharing and channel borrowing is performed	6M						
		UNIT-V							
9.		Explain the significance of Hand-off in Mobile Communication. Explain (i) Delaying Handoff (ii) Forced Handoff (iii) Soft Handoff and (iv) Intersystem Handoff	14M						
10	c)	OR Evolain TDMA in datail	4014						
10.	,	Explain TDMA in detail	10M						
	b)	Explain GSM Channels ***	4M						

	Н	all Ticket Number :										
		P_15										
	Code: 5G384 IV B.Tech. II Semester Regular Examinations March 2019											
	Wireless Communication & Networks											
	(Electronics & Communication Engineering)											
	Max. Marks: 70 Answer all five units by choosing one question from each unit (5 x 14 = 70 Marks)											
		UNIT-I										
1.	a)	Explain the concept of Frequency reuse.	6M									
	b)	If a normal GSM time slot consists of 8 trailing bits, 12 guard bits, 26 synchronization Bits and three bursts of 58 bits of data, find the frame efficiency of GSM TDMA frame.	8M									
2.	a)	Derive the expression for the system spectral efficiency of FDMA. If a US AMPS cellular operator is										
	- ,	allocated 15 MHz total spectrum, guard band is 10 KHz and full duplex channel bandwidth is 40 KHz & number of channels allocated for control signaling is 20. Find the spectral efficiency of FDMA.	7M									
	b)											
		difference between Fast frequency hopping and Slow Frequency Hopping?										
3.	a)	UNIT-II Illustrate the Signaling System No-7 architecture with a diagram.	10M									
0.	b)	List the differences between wireless and fixed telephone networks.	4M									
	~)	OR										
4.	a)	Explain ATM protocol stack. Explain the functions of each layer.	7M									
	b)	Explain the ATM cell header with a diagram. Mention the functions of VCI, Payload Type, Cell Loss										
		Priority and Header Error Control.	7M									
-												
5.	a) b)	Explain Wireless Datagram Protocol. What is Wireless Markup Language Script? What are the major difference between JavaScript and	8M									
	D)	What is wheless markup Language Schpt? What are the major difference between JavaSchpt and WML Script?	6M									
		OR										
6.	a)	Explain the following:										
		i. A home agent (HA)										
		ii. A <i>foreign agent</i> (FA) iii. Foreign agent care-of address										
		iv. Co-located care-of address	10M									
	b)	Explain the process of tunneling in mobile IP.	4M									
		UNIT–IV										
7.	a)	Discuss protocol architecture of IEEE 802.11.	8M									
	b)	Explain radio specifications and baseband specification of Bluetooth.	6M									
_		OR										
8.	a)	Write short notes on narrowband microwave LANs	8M									
	b)	Explain Logical Link Control and Adaptation Protocol (L2CAP).	6M									
9.	a)	UNIT-V What is CDPD? Explain the reference architecture in CDPD.	8M									
э.	a) b)	Explain the features of HiperLAN.	6M									
	OR											
10.	a)	Explain the protocol layers in GPRS	10M									
	b)	What is HiperLAN/2?	4M									

Hall T	icket Number :										
	: 5GA82								R-15		
IV B.Tech. II Semester Regular Examinations March 2019											
Human Resource Management											
(Common to All Branches)											
Max. Marks: 70 Answer all five units by choosing one question from each unit (5 x 14 = 70 Marks)											
1.	 What is meant by HRM? Discuss the functions of human Resource Management with relevant examples? OR 										
2.	Define Human Resource Management and discuss the difference between Personnel Management and HRM.										
				UNIT	_11						
3.	How does the strategic objective	-	ng proces			achiev	/emei	nt of an	organization's		
				OF	र						
4.	What is Job Ana	What is Job Analysis? Explain the job design methods in detail?									
				UNIT-	-111						
5.	What are variou	s sources o	of applicar	nts that c	rganizati	ons us	se wh	nen recrui	ting?		
				OF	र						
6.	What is selection? Explain different types of selection tests and process of selection										
7	Discuss the dif	forest mod	hada of	UNIT-					for onbonding		
7.	Discuss the dif employee perfor		nous oi	training	used b	yan	orga	nization	for enhancing		
				OF	र						
8.	Explain the obje	ctives, imp	ortance ar	nd factor	s influen	cing e	xecut	ive devel	opment		
				UNIT							
9.	Should effective Grievance Handling Procedure retains a potential employee in an organization – explain.										
				OF	र						
10.	Suppose you an used in your org	-	/isor. Eva	luate the	e differer	nt perf	forma	ince appr	aisal methods		
