14IT602

## Hall Ticket Number:



## III/IV B.Tech (Supplementary) DEGREE EXAMINATION

November,2019 Sixth Semester			Information Technology Wireless Networks	
Answer Question No. 1 compulsorily. (1X12 = 12 Mark				larks)
Answer ONE question from each unit.			(4X12=48 Marks)	
1 Answer all questions			(1X12=12 M	larks)
	a)	List various mobile and wireless devices.		
	b)	Draw the radiation pattern of a simple dipole.		
	c)	What is frequency division multiplexing?		
	d)	Draw the frame structure of TETRA.		
	e)	Which numbers plays a major role in locating a mobile station?		
	I)	List the applications of satellites in the context of mobile communication	ons.	
	g)	What are the disadvantages of infrared technology?		
	n)	What is reverse tunnelling?		
	1) i)	How can DHCP be used for mobility and support of mobile IP?		
	リ 1-)	Why slow start mechanism fails in mobile IP?		
	к) 1)	List the operations of PUSH access protocol.		
	Ŋ	which will class reliects the typical web access?		
2	a)	Describe the history of wireless communications		6M
-	b)	Explain the functions of each layer of OSI reference model in a	wireless and mobile	6M
	0)	environment	wireless and moone	0111
		(OR)		
3	a)	Discuss various signal propagation effects.		6M
	b)	With suitable examples explain CDMA system.		6M
		UNIT II		
4	a)	Draw the basic architecture of the UTRA network and explain.		8M
	b)	Describe the two basic classes of UMTS handovers.		4M
_		(OR)		
5	a)	What characteristics do the different satellite orbits have? What are the	e pros and cons?	6M
	b)	Draw the DAB frame structure and components of a DAB sender.		6M
	``	UNIT III		01.6
6	a)	Explain the functions of Bluetooth baseband, link manager and le	ogical link control &	8M
	1-)	adaptation protocols.		4N /
	D)	Draw the basic structure of HiperLAN2 MAC frames.		41 <b>VI</b>
7	a)	( <b>UK</b> ) Discuss the requirements partition and terminals are of makile ID		6M
/	a) b)	Discuss the requirements, endues and terminology of mobile IP.	10.0	6M
	0)		les.	0101
8	a)	How Indirect TCP increases TCP's performance in wireless and mobil	e environment?	6M
0	b)	Describe the functionality of spooping TCP		6M
	0)	$(\mathbf{OR})$		0111
9	a)	Draw and explain the WAE logical model.		6M
	b)	Illustrate the WTA functionality.		6M
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