## 

		GBGS Scheme	
USN			5MT551
		FEGEL C	<i>Q</i>
Fifth Semester B.E. Degree Examination, Dec.2017/Jan.2018			
		Wireless Networks and Communication	
Tim		3 hrs. Max. M	
	N	ote: Answer any FIVE full questions, choosing one full question from each mod	dule.
		Module-1	
1	a.	What is wireless communication system? Explain the block diagram o	f wireless
		communication system?	(10 Marks)
	b.	Define Pathloss? A mobile receiver communicates at a distance of 5km with the	transmitter
		which is having the operating frequency of 750 MHz. calculating the pathloss in t	the system. (06 Marks)
			(00 Marks)
2	a.	OR List out the wireless communication problems and briefly explain any.	(00 Ml)
_	b.	Define packet switching. With the neat diagram explain packet switching.	(08 Marks) (08 Marks)
		provide the first and the first and provide	(00 Marks)
2		Module-2	
3	a. b.	Explain the unique properties of WBAN with neat diagram.	(08 Marks)
	υ.	Explain the network architecture of WPAN.	(08 Marks)
,		OR	
4	a.	Describe the Routing protocols suitable for WBAN in Network layer.	(08 Marks)
	b.	List out the requirement of WPAN devices? Give the diagram of WPAN ted Briefly explain few important application of WPAN.	(08 Marks)
			(Uo Marks)
5		With mitable discussion 1 in the Module-3	
3	a.	With suitable diagram, explain the characteristics of the Air interface with respect and indoor propagation case.	
	b.	Explain the path loss model in free space propagation. Derive an expression	(08 Marks)
		received signal power to the radio link distance.	(08 Marks)
			,
6	a.	Explain the wireless Telecommunication coding technique.	(08 Marks)
· ·	b.	With neat diagram, explain the diversity techniques (any two).	(08 Marks)
			(oo mana)
7	a.	Module-4 Define WLAN, Explain the two different modes of WLAN network Architecture.	(00 N/L L )
/	b.	Describe the Design Requirement of WLAN.	(08 Marks) (08 Marks)
		OR	(00 Marks)
8	a.	List out the applications of WLAN, WMAN and WWAN.	(06 Marks)
	b.	With neat diagram explain WMAN network Architecture? List out the network c	
		with brief explanation of any two.	(10 Marks)
		Module-5	
9	a.	What is Mobile AdHOc Networks? Explain the network architecture of MANET	
	1	its characteristics.	(10 Marks)
	b.	Explain the Network Architecture of a typical VANET with neat diagram.	(06 Marks)
OR			*. *
10	a.	What is Wireless sensor Networks? Explain the network Architecture of WSN diagram.	
	b.	Describe the Technologies and applications of wireless Mesh Network (WMN).	(08 Marks) (08 Marks)
	75. 1		(OO ITHUING)