

## GBGS SCHEME

17MT551

## Fifth Semester B.E. Degree Examination, Dec.2023/Jan.2024 Wireless Networks and Communication

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

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se.				Module-1	
y blank pages. = 50, will be treated as malpractice.	1		a.	What is Wireless Communication System? Explain the block diagram of	f wireless
alpr				communication system.	(10 Marks)
s m			b.	Discus wireless communication problems encountered in wireless networks.	(10 Marks)
e q a					
reat				OR	
ses. be t		2	a.	Explain how wireless network are classified based on range and application.	(10 Marks)
pag			b.	Explain various wireless networking issues encountered in wireless network.	(10 Marks)
lank 50, v					
1g b				Module-2	
inir 12+8		3	a.	With a neat diagram, explain WBAN architecture and its characteristics.	(10 Marks)
ema g, 4			b.	Explain routing protocols required for WBAN in network layer.	(10 Marks)
he r				A OR	
on t vritt		4	_	OR Described to the control of WPAN	(4035.1)
nes	4	4	a.	Describe the network architecture for WPAN.  With a past diagram, symbol Physicath protectly and steel	(10 Marks)
ss lii atio			b.	With a neat diagram, explain Bluetooth protocol stack.	(10 Marks)
cros				Module-3	
onal I /or		5	a.	Describe QPSK digital modulation technique with a neat figure.	(10 Marks)
iago	•	J	b.	Explain OFDM digital modulation technique.	(10 Marks)
w d ator			٠.	2. April 17 2. A suggestion to the april 2.	(10 Marks)
dra dalu				OR	
orily to e		6	a.	Discuss diversity techniques in wireless communication.	(10 Marks)
oulso			b.	Explain RAKE receiver used for CDMA system.	(10 Marks)
omp					
On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Any revealing of identification, appeal to evaluator and /or equations written eg, $42+8=50$ , will be sometimes of identification appeal to evaluate and itself of the expression of the				Module-4	
swe	,	7	a.	With a neat diagram, explain network components and architecture of WLAN.	(10 Marks)
r an enti			b.	Explain important features of WIMAX.	(10 Marks)
you fid			4		
ing ng c		8	•	With a past diagram avalain the CSM architecture	(10 M
ıplet eali	•	0	a. b.	With a neat diagram, explain the GSM architecture.  With a neat diagram, explain the network components and architecture of WMAN.	(10 Marks)
com			U.	with a neat diagram, explain the network components and arenitecture of wiviAiv.	(10 Marks)
On co Any re					(=======)
1. 2.				Module-5	
ote :	9	9	a.	Discuss Quantitative and Qualitative features of wireless Adhoc Network.	(10 Marks)
Ž			b.	With a neat diagram explain the wireless sensor network architecture.	(10 Marks)
Important Note: 1.					
mpc				OR	
	1	0	a.	Explain 5 routing protocols of Wireless Sensor Network (WSN)	(10 Marks)
			b.	With a neat diagram explain the architecture and characteristics of VANET.	(10 Marks)

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