Total No	o. of Questions : 8]	GD A TO N
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PB23	632 [6263]:£80	[Total No. of Pages : 2
	B.E. (Information Tecl	hnology)
	WIRELESS COMMUNI	
	95	
	(2019 Pattern) (Semester-VII) (Ele	ecuve-1v ) (414445 D)
Time: 2	2½ Hours]	[Max. Marks : 70
Instruct	tions to the candidates:	
1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6,	Q.7 or Q.8.
2)		essary.
3)		
4)	Assume suitable data if necessary.	
	26.	\S
		96.
<b>Q1</b> ) a)		_
	technique.	× [9]
b)	1	-
	Wireless communication with suitable e	xample. [9]
	OR	
<b>Q2</b> ) a)	What is MIMO? Explain two formats of	of MIMO. [93)
b)	What do you understand by IDMA (Inter	rleave Division Multiple Access)?
,	Discuss in detail.	[9]
<b>()2</b> ) a)	What is NEC2 What are the different of	paraetaristics FNECS [0]
<b>Q3</b> ) a)	What is NFC? What are the different cl	haracteristics of NFC? [9]
b)	Explain in details SigFox protocol.	[8]
	OR	20
O(1)	Evnlain in datails WAD architecture with	n near diagram
<b>Q4</b> ) a)	Explain in details WAP architecture with	nneat diagram. [9]

What is LoRaWAN? Elaborate LoRaWAN network elements.

b)

P.T.O.

[8]

<i>Q5</i> )	a)	Explain security issues and challenges in GSM.		
	b)	What are Wireless Security tools? Explain URH and Kismet in deta	ils. <b>[9</b> ]	
		OR"		
<b>Q6</b> )	a)	Explain in detail UMTS Security.	[9]	
	b)	b) Explain in details Multimedia security in 5G and 6G.		
<b>Q</b> 7)	a)	What is 5G NR (New Radio)? Explain working 5G NR in detail.		
	b)	b) Explain Simultaneous Transmission and Reflection (STAR) for 360°		
		coverage in details.	[8]	
		OR S		
<b>Q</b> 8)	a)	What is quantum Technology? Explain quantum Technology for a 5	5G/6G	
		wireless network?	[9]	
	b)	Enlist and explain application of Holographic MIMO surface.	[8]	
		ROLLE STORY OF THE	SK. 1750.	

[6263]-180