b.i. Organize the types of satellite systems with neat sketch.	5 4 3	1		Reg. No.	MgT privo artigo =	intelli li		
ii. Identify the beneficiaries of GPS.	5 4 3	2						
in identify the contribution of 22.5.				B.Tech. DEGREE E	EXAMINATION, MAY 2022			
29. a. Elaborate the use of reverse tunneling concept in mobile suitable diagram.	IP and draw 10 3 4	3			th Semester			
suitable diagram.			18CSF	E458T – WIRELESS	AND MOBILE COMMUNIC	ATION		
(OR)					the academic year 2018-2019 to			
b. Discuss the features of WML with example programs.	10 2 4	3	Note:	1	1. 1. 6 . 40	O) (D) 1 1	. 1111.	. 1
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 4 5	2		ilator at the end of 40 th m	neet within first 40 minutes and (e nanded
30. a. Analyze IEEE802.11 architecture and frames types.		-		be answered in answer bo				
(OR)			m; 01/ II					J. 75
b.i. Draw the architecture of Bluetooth.		3	Time: 2½ Hours			Ma	x. Mar	KS: /3
ii. Discuss Wi-Fi standards.	5 2 5	3		$PART - A (25 \times 1 = Answer ALL Quality)$	uestions		rks BL	CO PO
					es radiate upward in to the io	nosphere	1	1 1
* * * * *			•	reflected back to the ea				
			(A) Ground pro (C) Line-of-sig	opagation ght propagation	(B) Sky propagation(D) Layer propagation			
			2. When the mod	ulation index is great	er than one, the signal is sa	aid to be	1 2	1 2
			(A) Under mod		(B) Two-tone modulated			
			(C) Over modu	ulated	(D) Three-tone modulated			
			3. Adjacent channe	el interference can be	avoided by	1	1 2	1 1
			(A) Guard space		(B) Overlapping area			
			(C) Multiplexi	ng	(D) Demultiplexing			
			4. In PSK, to rece	eive the signal correc	tly, the receiver must synchi	ronize in	1 2	1 3
			frequency and p	hase with the transmit	ter. This can be done using			
	and the same of the		(A) Amplitude		(B) Space lock loop			2
			(C) Frequency	lock loop	(D) Phase lock loop			
			5. Which filter is u	used to get the final FH	ISS signal?		1 2	1 1
			(A) Low pass f		(B) High pass filter			
			(C) Band pass	filter	(D) Band stop filter			
				of cellular network ociated with the angle	assists in minimizing the co	o-channel 1	2	2 3
			(A) Cell splitti		(B) Cell sectoring			
· min			(C) Cell segme	_	(D) Cell dualization			
							1 2	2 1
			7. Co-channel reus (A) $3\sqrt{N}$	se factor Q is	(B) $\sqrt{3}N$			
			(C) $\sqrt{3}(N)$		(D) $\sqrt{3}N$			
			(C) V3(IV)		(~) IVV3			

Page 4 of 4

(B) Hexagonal

8. Standard shape of cell is

(A) Circular

Page 1 of 4

(C) Triangular

9. Which of the following is not true for TDMA?		1	2	2 2	2	20	0.	In WML, a deck contains a set of .	1	. 1	4	1		
		(A) Single carrier frequency for	(B) Discontinuous data transmission							(A) Pages (B) Cards				
		single user (C) No requirement of duplexers	(D) High transmission rates							(C) Text (D) Files				
		(C) No requirement of duplexers	(D) High transmission rates					2	1	Which multiple access technique is used by IEEE802.11 standard for	r 1	2	5	2
	10.	All users in CDMA system uses	_ carrier frequency.	1	1	2	1	2.		wireless LAN?	1 -	Ī		
	10.	(A) Different	(B) Two							(A) CDMA (B) CSMA/CA				
		(C) Ten	(D) Same							(C) ALOHA (D) Slotted ALOHA				
			(-)							(b) blottou i ibo				
	11.	The permanent data of the subscriber	is stored in	1	2	3 3	3	22	2.	A Bluetooth network is called a .	1	2	5	1
		(A) HLR	(B) VLR							(A) Pico net (B) Scatter net				
		(C) AU	(D) EIR							(C) Blue net (D) Internet				
	12.	VMTS uses which multiple access ted	*	1	2	3	3	23		In IEEE 802.11, a BSS with an AP is sometime referred to as	1	1	5	3
		(A) CDMA	(B) TDMA							(A) An adhoc architecture (B) An infrastructure network				
		(C) FDMA	(D) SDMA							(C) Point-to-point network (D) Independent network				
	12	LOW satellite are at kms above	e earth's surface.	1	2	3	1	2.	1	Which tree of DEID took one most common for much sheir and incents	- 1	2	5	1
	15.	(A) 3600	(B) 500-1500			- 44		2'		Which type of RFID tags are most common for supply chain and inventor management?	7 1	~		
		(C) 6000-20000	(D) Above 20000							(A) Passive tags (B) Active tags				
		(5) 5555 2555	(2) 110010 20000							(C) Original tags (D) Duplicate tags				
	14.	Airplane and boat pilots use GPS for		1	3	3	1			(b) Duplicate tags				
		(A) Mapping	(B) Limit setting in air or water					2:	5.	Which of the following technology is mainly designed for indoor coverage?	1	1	5	2
		(C) Navigation	(D) Bearing							(A) 3GPP (B) LTE				
	15	WiMAX stands for		1	1	3	1			(C) Femtocell networks (D) AMPS				
	15.	(A) Wireless Maximum Communication	tion											
		(B) Worldwide Interoperability for M									-			
		(C) Worldwide International Standard								$PART - B (5 \times 10 = 50 \text{ Marks})$	Marks	BL.	CO	PO
		(D) Worldwide Maximum Communi								Answer ALL Questions				
	16	To galaxy the metayonly addressing much	lama a mahila hast	1	4	1 1	3	26	ล	Illustrate analog and digital modulation schemes with neat sketch.	10	4	1	1
	10.	To solve the network addressing prob		1				20.	u	indistrate analog and digital modulation schemes with heat sketch.				
(A) Uses HDCP to change its (B) Use two addresses, the home address as it goes to a new address and the care of address							(OR)							
		network	address and the care of address					b.	i.	Identify the advantages of spread spectrum.	3	3	1	2
		(C) Borrows an address from the	(D) Base address											
		foreign network						i	ii.	Explain Direct Sequence Spread Spectrum (DSSS) and Frequency Hoppin	5 7	4	1	2
	1.7	T 11 12 11 17		1	2	4	,			Spread Spectrum (FHSS).				
	1/.	For agent solicitation, mobile IP uses	_	1	2	†	L	27			2	,	2	1
		(A) A new packet type(C) Solicitation packet of TCP	(B) Solicitation packet of IP(D) The outer solicitation packet of					27. a.	.1.	Classify the shape of the cell.	3	1	2	1
		(C) Solicitation packet of TCF	ICMP							Analyza the symmetry of call and this and call acatesis a with discuss	7	4	2	1
								,	u.	Analyse the purpose of cell splitting and cell sectoring with diagram.	,	7	2	1
	18.	The behavior of TCP shows after the		1	1	1 .	l			(OR)				
		(A) Slow start	(B) Slow down			12	•c	b.	i.	Distinguish pure ALOHA and slotted ALOHA.	4	4	2	1
		(C) Wait to restart	(D) Slow stop							Francisco de la constante de l				
	19.	runs on top of a datagram s	ervice such as UDP and is part of the	1	2	4	1	i	ii.	Compare various multiple access technique.	6	4	2	1
		standard suite of TCP/IP protocols.	r											
		(A) Wireless Application Environme	ent.					28. a.	i.	Categorize the domains of GSM.	5	3	3	1
		(B) Wireless Markup Language										_		
		(C) Wireless Transport Layer Securit	ty					i	1.	Illustrate EDGE technology in GPRS.	5	3	3	1
		(D) Wireless Transaction Protocol								(OR)				
Pa	ge 2 of 4		1	8MF61	RCSE458	Г		Page 3 o	of 4		18MF61	8CSE	458T	