University of Mumbai Examinations Summer 2022 (Revised Set May 2022)

Time: 2 Hr 30 Mins Max. Marks: 80

01	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks		
Q1.			
1.	VoLTE Stands for		
Option A:	Voice over Long Term Evolution		
Option B:	Voice Over Local Telecommunication Equipment		
Option C:	Video Over Long Term Evolution		
Option D:	Volume Over Long Term Evolution		
2.	UTRAN stands for		
Option A:	Universal Transmission Radio Networks		
Option B:	Universal Terrestrial Radio Access Network		
Option C:	Unified Transmission Area Network		
Option D:	Universal Time Radio Access Network		
3.	Which of the following Stores the User Related Data That is also relevant to GSM Mobile Systems?		
Option A:	VLR		
Option B:	HMR		
Option C:	GMR		
Option C:	SIM		
Орион D.			
4.	Generic Routing Encapsulation allows the encapsulation of packet of One protocol suite into payload portion of a packet of another Protocol suite is nothing but		
Option A:	GRE		
Option B:	IP Tunneling		
Option C:	Protocol Synchronization		
Option D:	Minimal Encapsulation		
O P I S S S S S S S S S S S S S S S S S S			
55.57 2000	Two or more antennas can also be combined to Improove the reception by counteracting the negative effects of multi path propagation, these antennas are also termed as		
Option A:	multi element antenna Array		
Option B:	Smart Antenna		
Option C:	Sectored antenna		
Option C:	Isotropic Radiator		
Орион D.	Isotropic Radiator		
6.	What is an Access Point		
Option A:	An entity that provides access to LLC layer		
Option B:	An entity that provides access to MAC layer		
Option C:	An entity that provides access to the Destination System		
Option D:	An entity that provides access to Basic Service Set		
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A Mobile Phone UsesType of Communication
11 Moone 1 mone cases1 pe of communication
Full Duplex
Half Duplex
Both A and B
None of the Above
There is a need for certainto avoid the frequency Overlapping in FDM.
Guard Space
Frequency Range
Carrier
Attenuator
Which of the following is the disadvantage of having smaller cells in Cellular System
Less Transmission Power
Only Local Interface
Need of Handover
Frequency Re-use
IN TCP/IPis a congestion Control algorithm that makes it possible to
quickly recover lost Data Packets
Fast Retransmit and Fast Recovery
Fast Retransmit
Fast Recovery
Slow Start

Q2,	Solve any Two 10 marks each
a)	Explain Bluetooth Protocol Stack in detail.
	Explain the terms PICONET and Scatter net in terms of Bluetooth.
b)	Explain Various Hand over mechanisms in Details.
c)	Write a Short Note on UTRAN and UMTS Network

Q3	Solve any Two 10 marks each
a) Explain IP Packet Delivery, What do you mean by Agent Discovery and Agent	
44 6 5 V C	Advertisement in terms of Mobile N/w
50 (b) 10 50 5	Explain GSM Architecture in Detail.
Explain signal Propagation in detail with various effects such as shadowin	
	Refraction, scatter, multipath propagation

Q4	Solve any Two 10 marks ea	ch
a)	Write a brief description on Various Generations of Telecommunicati various applications of mobile devices for Vehicles, Emergency situate Entertainment.	
b)	Write a Short Note on a) HAWAII b) HMIPv6	
	What are the various Wireless LAN Threats and How we can secure the wireless Networks	