TE(IT) Sem VI C'scheme WT @Prode: 93605 (1)

University of Mumbai

Paper Code-89383/Wireless Technology

Examination Summer 2022

Examination Commencement from 17th May to 31th May 2022

Program: T.E. (Information Technology)
(Choice Based)SEM VI- (REV-2020-21) (C Scheme)
TE Semester VI

Course Code ITC603

Time: 2 hours and 30 minutes

Max. Marks: 80

Q1.	Choose the correct option for the following questions. All the questions are
· V1.	compulsory and carry equal marks
1.	Which is better for avoiding jamming
Option A:	
Option B:	Frequency hopping spread spectrum
Option C:	Time hopping spread spectrum
Option D:	Code division hopping spread spectrum
2.	CDMA uses handoff
Option A:	Hard handoff
Option B:	Hard & Soft hand off
Option Ci	Soft Handoff
Option D:	Orthogonal Handoff
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3.	UMTS use which multiple access technique?
Option A:	FDMA
Option B:	TDMA
Option C:	CDMA
Option D:	WCDMA
4.	2.5G allows standard web pages to be viewed in compressed format on mobile
Option A:	SAP
	WEP
Option C:	RAP
Option D:	WAP
5.	Carrier spacing used in GSM
a december of the second of	290KHz
Option B:	200KHz
Option C:	490KHz
	450KHz
Option D:	TOURING
6,	Wi-Max uses
	Channel division multiplexing
	Space division multiplexing
Option B:	Space Great Thumpiexing
Option C:	Time division multiplexing
Option D:	Orthogonal frequency division multiplexing
0.2.00	
	L2CAP layer in Bhietooth
	Handles data encryption
	Administration and control of all link actions
A start of the	Provides connection-oriented and connectionless data services to upper-layer
15	protocols
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8.	What is the frequency range of IEEE 802.11a standard?
Option A:	2.4 Gbps
Option B:	5 Gbps
Option C:	2.4 Ghz
Option D:	5 GHz
9.	In Bluetooth the operating frequency band is
Option A:	2.4GHz *
Option B:	9.4GHz
Option C:	8.4GHz
Option D:	9.4GHz/11.4GHz
1100	
10.	WPA uses Algorithm to check integrity of the packets.
Option A:	'TKIP
Option B:	SAP
Option C:	DOA
Option D:	RAP YOUR SECTION OF THE SECTION OF T

Q2 (20 Marks Each)	Solve any Two Questions out of Three 10 marks each
Α	Explain the LTE network architecture.
В	i. Compare FDMA, TDMA and CDMA ii. Explain the protocol architecture of IEEE 802.11
С	Draw and explain the GSM Time slot hierarchy

Q3 (20 Marks Each)	Solve any Two Questions out of Three 10 marks each
Α,	Explain spread spectrum and briefly outline DSSS and FHSS
В	Draw and explain WSN protocol layer architecture. Give the applications of WSN
C	State the features of WiMAX. Draw and explain the architecture of WiMAX

Q4 (20 Marks Each)	Solve any Two Questions out of Three 10 marks each
A	i. State the characteristics of MANET. ii. Give the Features of VANET and E-VANET
B	i. Write a Short Note on UMTS security ii. Compare WEP and WPA2 protocol.
c	State the features of Cisco Unified Wireless Network, Draw and explain Cisco Unified Wireless Network Architecture

