

University of Mumbai

Examination 2020 under cluster 4 (PCE)

Program: BE Electronics and Telecommunication Engineering

Curriculum Scheme: Rev2012

Examination: Final Year Semester VII

Course Code:ETC702 and Course Name: Mobile Communication

Time: 1 hour

Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	The technique to provide large area coverage for high speed users while providing small area coverage to users travelling at low speed
Option A:	Umbrella cell approach
Option B:	Cell splitting
Option C:	Sectoring
Option D:	Microcell Zone Concept
Q2.	MTSO
Option A:	Mobile Telephone Station Office
Option B:	Mobile Transmission Switching Office
Option C:	Main Telephone Switching Office
Option D:	Mobile Telephone Switching Office
Q3.	CDMA channel bandwidth is
Option A:	30kHz
Option B:	200kHz
Option C:	1.25MHz
Option D:	1MHz
Q4.	Out of 100 channels how many channels are assigned as control channels?
Option A:	5
Option B:	10

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Option C:	2
Option D:	8
Q5.	Each cell is allocated predetermined set of voice channels
Option A:	Dynamic channel assignment strategy
Option B:	Borrowing channel assignment strategy
Option C:	Fixed channel assignment strategy
Option D:	Hybrid channel assignment strategy
Q6.	Each IS-95 channel occupies _____ of spectrum on each one way link
Option A:	1.25 KHz
Option B:	1.25 MHz
Option C:	125 KHz
Option D:	200 kHz
Q7.	IS-95 is specified for reverse link operation in _____ band
Option A:	869-894 MHz
Option B:	849-894 MHz
Option C:	849-869 MHz
Option D:	824-849 MHz
Q8.	User data in IS-95 is spread to a channel chip rate of
Option A:	1.2288 Mchip/s
Option B:	0.96 Mchip/s
Option C:	9.6 Mchip/s
Option D:	12.288 Mchip/s
Q9.	_____ are used to resolve and combine multipath components

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Option A:	Equalizer
Option B:	Registers
Option C:	RAKE receiver
Option D:	Frequency divider
Q10.	Some advantages of spread spectrum are
Option A:	Low susceptibility
Option B:	Immunity to jamming
Option C:	Reduced interference
Option D:	High susceptibility
Q11.	Which is better for avoiding jamming
Option A:	Direct sequence spread spectrum
Option B:	Frequency hopping spread spectrum
Option C:	Time hopping spread spectrum
Option D:	Undirect sequence spread spectrum
Q12.	UMTS use which multiple access technique?
Option A:	TDMA
Option B:	FDMA
Option C:	CDMA
Option D:	SDMA
Q13.	SIM in 3G network is called
Option A:	Micro SIM
Option B:	Nano SIM
Option C:	USIM
Option D:	RSIM

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Q14.	What is the minimum data speed offered by 3G mobile technology for a Stationary user?
Option A:	128kbps
Option B:	384kbps
Option C:	2mbps
Option D:	8mbps
Q15.	How much increase in spectral efficiency is provided by W-CDMA in comparison to GSM?
Option A:	TWO TIMES
Option B:	THREE TIMES
Option C:	SIX TIMES
Option D:	SAME
Q16.	In 4G LTE network, the round trip latency between a Mobile phone and Base station is _____ms
Option A:	100
Option B:	10
Option C:	5
Option D:	1
Q17.	Mention the multiple access technique used by an LTE
Option A:	WCDMA
Option B:	FDMA
Option C:	OFDMA
Option D:	CDMA
Q18.	Location management feature supported by 4G is _____
Option A:	Concatenated Management
Option B:	Concatenated Location Registration
Option C:	Collated Location Registration
Option D:	Concurrent Location Register
Q19.	Which LTE channel indicates the number of symbols used by the PDCCH?
Option A:	PBCH
Option B:	PCFICH

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Option C:	PHICH
Option D:	PDCCH
Q20.	_____ is a technique of transmit diversity used in UMTSS third-generation cellular systems.
Option A:	STTD
Option B:	SM
Option C:	Collaborative Uplink MIMO
Option D:	MU-MIMO
Q21.	Drawbacks of SDR
Option A:	Difficulty in writing software for various applications
Option B:	Cant able to support different networks
Option C:	Does not provide benefits to the manufacturers
Option D:	Complex network
Q22.	Which of the following technology does not use MIMO?
Option A:	4G
Option B:	WiFi
Option C:	WiMAX
Option D:	AMPS
Q23.	Signal will be distorted if the transmission frequency is greater than the bandwidth of _____
Option A:	Carrier Signal
Option B:	Received Signal
Option C:	Multipath channel
Option D:	Modulating signal

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Q24.	Frequency selective fading channels are also known as
Option A:	Narrow band channel
Option B:	Phase varying channel
Option C:	Amplitude varying channel
Option D:	Wide Band channel
Q25.	Which of the following is not a channel parameter
Option A:	Modulating frequency
Option B:	Coherence time
Option C:	RMS Delay spread
Option D:	Doppler spread

University of Mumbai

Examination 2020 under cluster 4 (PCE)

Program: BE Electronics and Telecommunication Engineering

Curriculum Scheme: Rev2012

Examination: Final Year Semester VII

Course Code:ETC702 and Course Name: Mobile Communication

Time: 1 hour

Max. Marks: 50

Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	A
Q2.	D
Q3.	C
Q4	A
Q5	C
Q6	B
Q7	D
Q8.	A
Q9.	C
Q10.	D
Q11.	B
Q12.	C
Q13.	C
Q14.	C
Q15.	C
Q16.	B
Q17.	C
Q18.	B
Q19.	B
Q20.	A
Q21.	A
Q22.	D
Q23.	C
Q24.	D
Q25.	A

University of Mumbai
Examination 2020 under cluster 4 (PCE)