Examination 2020 under cluster 4 (PCE)

Program: BE Electronics and Telecommunication Engineering Curriculum Scheme: Rev2016

Examination: Fourth Year Semester VII

Course Code: ECC702 and Course Name: Mobile Communication System

Time: 1 hour

Max. Marks: 50

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

Q1.	For 60 degree sectoring how many sectors?		
Option A:	9		
Option B:	6		
Option C:	4		
Option D:	3		
Q2.	If the average request rate is 3 calls per hour for 2 minute time duration, then calculate the		
	traffic intensity.		
Option A:	0.5 Erlangs		
Option B:	0.2 Erlangs		
Option C:	0.01 Erlangs		
Option D:	0.1 Erlangs		
Q3.	Average duration of typical call is called as		
Option A:	Request Rate		
Option B:	Holding time		
Option C:	Traffic Intensity		
Option D:	Setup Time		
Q4.	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		
Q5.	Which factor is responsible for the attenuation of received power?		
Option A:	Inhert loss		
Option B:	Path loss		
Option C:	Distance loss		
Option D:	Path and Free space loss		
Q6.	To allow many users to share simultaneously a finite amount of radio spectrum resources is		
	called		
Option A:	Multiple access technique		
Option B:	Multiplexing technique		
Option C:	FDM		
Option D:	IDM		
Q7.	Which surface produce scattered waves ?		
Option A:	Smooth surface		

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Option B:	Shadow region		
Option C:	Horizon		
Option D:	Rough surface		
Q8.	Link budget calculation is related to		
Option A:	Transmitted power		
Option B:	Received power		
Option C:	Gain and losses from the transmitter		
Option D:	Transmitted and Received power		
09.	The world's first cellular system to specify digital modulation and network level architecture		
Option A:	AMPS		
Option B:	GSM		
Option C:	CDMA		
Option D:	IS-54		
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O10.	US digital cellular system based on CDMA was standardized as		
Option A:	IS-54		
Option B:	IS-136		
Option C:	IS-95		
Option D:	IS-77		
011.	What is the name of the web browsing format language supported by 2.5G technology		
Ontion A^{\cdot}	Wireless Application Protocol		
Option B:	Hypertext Markup Language		
Option C:	Extensible Markup Language		
Option D:	Hypertext Transfer Protocol		
Option D.			
012	Which of the following is not a TDMA standard of 2.5G network		
Option A:	HSCSD		
Option B:	GPRS		
Option C:	EDGE		
Option D:	GSM		
Option D.			
013	In which handoff, a mobile station communicates with two base stations at a time?		
Option A	soft		
Option R.	hard		
Option C:	medium		
Option D.	difficult		
Option D.			
014	GPRS and EDGE supports which 2G standard?		
Option A	GSM only		
Option R.	IS-136 only		
Option C.	GSM and IS-136 both		
Option D	PDC		
Option D.			
015	What does the number 2000 in IMT-2000 signifies?		
Q1J.	Number of colls		
Option A:			

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Option B:	Year		
Option C:	Area (km)		
Option D:	Number of subscribers per cell		
Q16.	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:	No increase		
_			
Q17.	What is the minimum data speed offered by 3G mobile technology for a Stationary user?		
Option A:	128 kbps		
Option B:	384 kbps		
Option C:	2 Mbps		
Option D:	8 Mbps		
Q18.	LTE standard is developed by		
Option A:	ETA		
Option B:	UMTS		
Option C:	3GPP2		
Option D:	3GPP		
Q19.	What is the carrier bandwidth in a typical 3G WCDMA based network?		
Option A:	1.4 MHz		
Option B:	20 MHz		
Option C:	5 MHz		
Option D:	10 MHz		
020			
Q20.	Resources can be allocated to the UE after every		
Option A:			
Option B:	sub frame		
Option C:	frame		
Option D:	slot		
021	In ACLTE natural, the record trip later or between a makile share and been station is		
Q^{21} .	m 40 LTE network, the round the latency between a mobile phone and base station is		
Option A:	100		
Option B:	10		
Option C:	5		
Option D:	1		
-			
Q22.	MIMO stands for		
Option A:	Many input many output		
Option B:	Multiple input multiple output		
Option C:	Major input minor output		
Option D:	Minor input minor output		

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Q23.	is a transmission method used in MIMO wireless communications to transmit encoded	
Option A:		
Option A.		
Option B:	SM	
Option C:	Collaborative Uplink MIMO	
Option D:	MU-MIMO	
Q24.	Drawbacks of SDR	
Option A:	Difficulty in writing software for various applications	
Option B:	Can't able to support different networks	
Option C:	Does not provide benefits to the manufacturers	
Option D:	Complex network	
Q25.	In wireless multi-hop networks, nodes communicate with each other using	
Option A:	wired channels	
Option B:	wireless channels	
Option C:	common infrastructure	
Option D:	CDMA	

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