## Program: Computer Engineering

Curriculum Scheme: Rev 2016

Examination: BE Semester: VII

Course Code: CSC702

Course Name: Mobile Communication & Computing Max. Marks: 80

Time: 2 hour

Option B:

Option C:

Option D:

NSS

OSS

BSC

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	The sharing of a medium and its link by two or more devices is called
Option A:	Fully Duplexing
Option B:	Multiplexing
Option C:	Microplexing
Option D:	Duplexing
2.	Which multiplexing technique used to transmit digital signals?
Option A:	FDM
Option B:	TDM
Option C:	CDM
Option D:	FDM & CDM
3.	The process of transferring a mobile station from one base station to another is
Option A:	MSC
Option B:	Hand-off
Option C:	Roamer
Option D:	Forward Channel
4.	Which of the following is the world's first cellular system to specify digital modulation and network level architecture?
Option A:	GSM
Option B:	AMPS
Option C:	CDMA
Option D:	IS-54
5.	Which of the following memory device stores information such as subscriber's identification number in GSM?
Option A:	Register
Option B:	FLIP
Option C:	SIM
Option D:	SMS
6.	Which of the following subsystem provides radio transmission between mobile station and MSC?
Option A:	BSS

7.	In each station sends a frame whenever it has a frame to send.
Option A:	Pure ALOHA
Option B:	Slotted ALOHA
Option C:	both a and b
Option D:	None of this
8.	
	In the method, after the station finds the line idle, it sends its frame
	immediately. If the line is not idle, it continuously senses the line until it finds it idle.
Option A:	Non persistant
Option B:	I-persistant
Option C:	n-persistant
Option D:	None of this
0	Le Comies Comes Multiple Access (CCMA) the next little of a flicture still entry house of
9.	in Carrier Sense Multiple Access (CSMA), the possibility of collision still exist because of
Option A:	Propagation Delay
Option B:	Sense delay
Option C:	Sense delay
Option D.	
10	is a hop by hop vector routing protocol requiring each node to periodically
10.	broadcast routing undates
Option A:	
Option R:	
Option D:	AODV
Option D:	DSDV
option D.	
11	In wireless ad-hoc network
Option A:	access point is not required
Option B:	access point is must
Option C:	nodes are not required
Option D:	all nodes are access points
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12.	What is the access point (AP) in a wireless LAN?
Option A:	device that allows wireless devices to connect to a wired network
Option B:	wireless devices itself
Option C:	both device that allows wireless devices to connect to a wired network and wireless devices
	itself
Option D:	all the nodes in the network
10	
1 <i>5</i> .	which multiple access technique is used by IEEE 802.11 standard for wireless LAN?
Option A:	
Option B:	
Option C:	
Option D:	

14.	Which of the following field in IPv4 datagram is not related to fragmentation?
Option A:	Flags
Option B:	Offset
Option C:	TOS
Option D:	Identifier
15.	Which of these is not applicable for IP protocol?
Option A:	is connectionless
Option B:	offer reliable service
Option C:	offer unreliable service
Option D:	does not offer error reporting
16.	The Internet Protocol version 4 (IPv4) delivery mechanism is used by
Option A:	IEEE protocols
Option B:	TCP/IP protocols
Option C:	Internet protocols
Option D:	UDP
17.	In LTE, what is the benefit of PAPR reduction in the uplink?
Option A:	mproved uplink coverage
Option B:	Lower UE power consumption
Option C:	Lower UE power consumption
Option D:	Improved uplink coverage, lower UE power consumption and reduced equalizer
18.	Which RLC mode adds the least amount of delay to user traffic?
Option A:	Unacknowledged mode (UM)
Option B:	Unacknowledged mode (UM)
Option C:	Low latency mode (LM)
Option D:	Transparent mode (TM)
19.	What is the largest channel bandwidth a UE is required to support in LTE?
Option A:	10 MHz
Option B:	20 MHz
Option C:	1.4 MHz
Option D:	5 MHz
20.	How often can resources be allocated to the UE?
Option A:	Every symbol
Option B:	Every slot
Option C:	Every subframe
Option D:	Every frame

Q2	Solve any Four out of Six (5 marks each)
А	Explain Concept of Frequency Reuse with clustering
В	GSM maintain end to end security by retaining the confidentiality of calls and anonymity of the GSM subscriber, Justify the statement.
С	Explain the functioning of Mobile TCP
D	Explain HIPERLAN2 Data Link Control Layer.
E	Explain Cellular IP.
F	Explain in Short Voice Over LTE

Q3.	Solve any Two Questions out of Three. (10 marks each)
А	Explain the GPRS architecture in detail. compare it with GSM architecture
В	Explain DSDV and DSR routing algorithm for adhoc networks
С	Explain various networks nodes present in E-UTRAN architecture