Program: **Computer Engineering**
Curriculum Scheme: Rev 2016
Examination: BE   Semester: VII

Course Code: CSC702   Course Name: Mobile Communication & Computing

Time: 2 hour   Max. Marks: 80

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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.	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
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.	In LTE, what is the benefit of PAPR reduction in the uplink?
Option A:	Improved 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

7.	Which multiple access technique is used by IEEE 802.11 standard for wireless LAN?
Option A:	CDMA
Option B:	CSMA/CA
Option C:	ALOHA
Option D:	CSMA/CD
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:	1-persistant
Option C:	n-persistant
Option D:	None of this
9.	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
10.	_____ is a hop-by-hop vector routing protocol requiring each node to periodically broadcast routing updates
Option A:	DSR
Option B:	AODV
Option C:	OSDV
Option D:	DSDV

Q2	Solve any Four out of Six (5 marks each) 20 Marks
A	Explain Concept of Frequency Reuse with clustering
B	GSM maintain end to end security by retaining the confidentiality of calls and anonymity of the GSM subscriber, Justify the statement.
C	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) 20 Marks
A	Explain the GPRS architecture in detail. compare it with GSM architecture
B	Explain DSDV and DSR routing algorithm for adhoc networks
C	Explain various networks nodes present in E-UTRAN architecture

Q4.	Solve any Two Questions out of Three. (10 marks each) 20 Marks
A	Explain the Bluetooth architecture in detail.
B	Explain SONET in detail.
C	Explain E-UTRAN architecture