

**University of Mumbai**  
**Examination 2020 under cluster 4 (PCE)**

Program: BE Computer Engineering

Curriculum Scheme: Rev 2012

Examination: Third Year Semester VI

Course Code: **CPC604** and Course Name: **Mobile Communication and Computing**

Time: 1 hour

Max. Marks: 50

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

Q1.	Serving GPRS Support Node provides
Option A:	Mobility management and authentication
Option B:	gateway
Option C:	tunnel
Option D:	Inter GPRS communication
Q2.	GPRS is a
Option A:	Circuit Switched Data (CSD) service.
Option B:	Packet Switched Data (PSD) service.
Option C:	Message Switched Data (MSD) service.
Option D:	Frequency Switched Data (FSD) service.
Q3.	Early satellites were placed in an orbit a few hundred kilometers above the Earth's surface called a(n)...
Option A:	Geostationary orbit (GEO).
Option B:	Low stationary orbit (LSO).
Option C:	High Earth orbit (HEO).
Option D:	low Earth orbit (LEO).
Q4.	Who developed standards for GSM technology?
Option A:	ANSI - American National Standards Institute
Option B:	ETSI - European Telecommunications Standards Institute
Option C:	IEEE - Institute of Electrical and Electronics Engineers
Option D:	Internet standard organization
Q5.	GSM corresponds to which generation?
Option A:	1G
Option B:	1.5G
Option C:	2G
Option D:	3G
Q6.	Signaling system No.7 is used for signaling between w.r.t protocol architecture of GSM
Option A:	MSC and BSC
Option B:	MS and BTS
Option C:	VLR and HLR
Option D:	BSS and BSC
Q7.	Which of the following is the world's first cellular system to specify digital modulation and network level architecture?

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Option A:	GSM
Option B:	AMPS
Option C:	CDMA
Option D:	IS-54
Q8.	In Mobile Assisted Handoff (MAHO), the handoff takes place when
Option A:	The power received by the mobile station from other base station is more than the serving base station
Option B:	The channel allocated is not available
Option C:	The mobile station has no signal
Option D:	The mobile station has a signal.
Q9.	Agent advertisement is
Option A:	showing the presence of agent
Option B:	showing the presence of MN
Option C:	showing the presence of CN
Option D:	showing the presence of COA
Q10.	Agent registration is done via _____ when MN is in FN.
Option A:	HA
Option B:	CN
Option C:	FA
Option D:	Tunnelling
Q11.	_____ is responsible for tunneling multicast packets to the MS's currently subscribed FA.
Option A:	Multicast home agent
Option B:	Mobile multicast
Option C:	Mobile station
Option D:	Base station
Q12.	What is the average uploading speed of 4G LTE network?
Option A:	1-3 Gbps
Option B:	2-5 Gbps
Option C:	1-3 Mbps
Option D:	2-5 Mbps
Q13.	A UMTS(Universal Mobile Telecommunication) network is a ____ network.
Option A:	First Generation
Option B:	Second Generation
Option C:	Third Generation
Option D:	Fourth Generation
Q14.	Which of the following is not a part of the characteristic of 4G network?
Option A:	Multirate management
Option B:	Fully converged services
Option C:	Software dependency
Option D:	Diverse user devices

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Q15.	MCHO stands for
Option A:	MSC assisted handoff
Option B:	Mobile assisted handoff
Option C:	Machine assisted handoff
Option D:	Mobile controlled handoff
Q16.	NCHO stands for
Option A:	Network controlled Handoff
Option B:	Mobile Controlled Handoff
Option C:	Mobile Assisted Handoff
Option D:	Network Assisted Handoff
Q17.	PLCP (physical layer convergence protocol) header is protected by _____
Option A:	16 bit checksum
Option B:	8 bit checksum
Option C:	4 bit checksum
Option D:	24 bit checksum
Q18.	Cipher Block Chaining Message Authentication Code Protocol is based on
Option A:	AES
Option B:	MD
Option C:	SHA-1
Option D:	RC-4
Q19.	In IEEE 802.11, a BSS with an AP is sometimes referred to as _____.
Option A:	An ad hoc architecture
Option B:	An infrastructure network
Option C:	Either an ad hoc architecture or an infrastructure network
Option D:	Hybrid architecture
Q20.	What are different handover situations possible in HIPERLAN2
Option A:	Sector handover, inter-APT & Network handover
Option B:	Sector handover, intra AP & Network handover
Option C:	Sector handover, Radio handover & Network handover
Option D:	Sector handover, Radio handover & intra AP
Q21.	WEP was designed to provide the _____ which is based on the _____ symmetric encryption standard.
Option A:	Security, SHA1
Option B:	Privacy, RC4
Option C:	Encryption, MD5
Option D:	Authentication, AES
Q22.	What is an interface in android?
Option A:	Interface act as a bridge between class and the outside world.
Option B:	Interface is a class

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Option C:	Interface is a layout file.
Option D:	Interface to class.
Q23.	A message authentication code (MAC) system consists of 3 algorithms -
Option A:	key generation algorithm , signing algorithm, verifying algorithm
Option B:	A3 , A5, A8
Option C:	M1, M2, M3
Option D:	HASH-0 , HASH-1 , HASH-2
Q24.	SSL (secure socket layer) is a commonly used encryption technique for -
Option A:	scrambling the user data when it passed through the internet from customers web browser to merchants web browser.
Option B:	storing the user data when it passed through the internet from customers web browser to merchants web browser.
Option C:	GSM user
Option D:	LTE user
Q25.	Confidentiality - a general issue in mobile network security, is related to -
Option A:	Preventing unauthorized users from gaining access to critical information of any particular user.
Option B:	Ensuring that the users are held responsible for their security related activities
Option C:	Ensuring unauthorized modification, destruction or creation of information cannot take place.
Option D:	Allowing unauthorized users from gaining access to critical information of any particular user.

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<b>Question</b>	<b>Correct Option</b> (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	<b>A</b>
Q2.	<b>C</b>
Q3.	<b>D</b>
Q4	<b>B</b>
Q5	<b>C</b>
Q6	<b>A</b>
Q7	<b>A</b>
Q8.	<b>A</b>
Q9.	<b>A</b>
Q10.	<b>C</b>
Q11.	<b>A</b>
Q12.	<b>D</b>
Q13.	<b>C</b>
Q14.	<b>A</b>
Q15.	<b>D</b>

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Q16.	<b>A</b>
Q17.	<b>A</b>
Q18.	<b>A</b>
Q19.	<b>B</b>
Q20.	<b>C</b>
Q21.	<b>B</b>
Q22.	<b>A</b>
Q23.	<b>A</b>
Q24.	<b>A</b>
Q25.	<b>A</b>