

NOTE: “These are sample MCQs to indicate pattern, may or may not appear in examination”

Program: BE Computer Engineering

Curriculum Scheme: Revised 2016

Examination: Final Year Semester VII

Course Code: CSC702 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.	Which organization is responsible for developing LTE standards?
Option A:	UMTS
Option B:	3GPP
Option C:	IEEE
Option D:	ISO
Q2.	Which interface connects the E-UTRAN to the EPC?
Option A:	S1
Option B:	S2
Option C:	X1
Option D:	X2
Q3.	Which of the following communicates directly with UE (user equipment) in LTE network?
Option A:	eNodeB
Option B:	SGW
Option C:	MME
Option D:	PGW
Q4.	Which of the following is not true with respect to USIM in LTE network?
Option A:	Assigns a traffic channel
Option B:	Keeps information about user phone number
Option C:	Keeps information about network identity
Option D:	Keeps information about security keys
Q5.	In case of SON-LTE which of the following is not true?
Option A:	It is self-organizing
Option B:	It is like Plug and Play
Option C:	eNodeB configuration is done by itself
Option D:	Manual configuration is needed
Q6.	In Mobile IP, the traffic destined to Home address of Mobile Node will always be routed to
Option A:	Foreign Agent
Option B:	Home Agent

Option C:	Correspondent Node
Option D:	Care of Address
Q7.	Which of the following is not the component of Cellular IP Architecture?
Option A:	Cellular IP Gateway
Option B:	Base Station
Option C:	Cellular IP Mobile Host
Option D:	Tandem
Q8.	Which of the following technology does not use MIMO?
Option A:	AMPS
Option B:	5G
Option C:	WIMAX
Option D:	4G
Q9.	Which of the following frequency band is used in 802.11b
Option A:	10 GHz
Option B:	900 MHz
Option C:	2.4 GHz
Option D:	1800 MHz
Q10.	The cost and complexity associated with Ad hoc based wireless network is high because
Option A:	Decentralized TCP protocols are used for coordination
Option B:	Decentralized MAC protocols are used for coordination
Option C:	Decentralized IP protocols are used for coordination
Option D:	Decentralized PHY protocols are used for coordination
Q11.	Which among the following is not supported by MAC Management?
Option A:	Roaming between different Access Points
Option B:	Controls authentication mechanisms
Option C:	Power management to save battery power
Option D:	Channel tuning
Q12.	Whenever two or more devices detect each other and communicate through Bluetooth and results forming a network called
Option A:	NANONET
Option B:	MICRONET
Option C:	PICONET
Option D:	INTRANET
Q13.	Disadvantage of encapsulation in Mobile Network layer is
Option A:	Packet size is larger than original
Option B:	Packet size is lesser than original
Option C:	Packet size does not change
Option D:	Packet size sometimes change

Q14.	Which of the following segments a TCP connection into a fixed part and a wireless part?
Option A:	Indirect TCP
Option B:	Direct TCP
Option C:	Both A and B
Option D:	Mobile TCP
Q15.	As an enhancement to distance vector algorithm, what is added to DSDV routing?
Option A:	Sequence Number
Option B:	More Data bits
Option C:	More storage in routing table
Option D:	Loop prevention
Q16.	In Mobile IP, the mechanism used for forwarding packets between Home Agent and Care of Address is called as
Option A:	Proxy
Option B:	Tunneling
Option C:	Relay
Option D:	Routing
Q17.	Which of the following provides packet mode data transfer service over the cellular network system?
Option A:	GSM
Option B:	GPRS
Option C:	TCP
Option D:	SMPS
Q18.	Each TDM channel occupies the _____ carrier for 577 μ s in every 4.615ms.
Option A:	200 KHz.
Option B:	400 KHz.
Option C:	200 MHz.
Option D:	800 KHz.
Q19.	_____ algorithm is used for key generation in GSM.
Option A:	A8.
Option B:	A2.
Option C:	A3.
Option D:	A5.
Q20.	In GSM which logical channel is used by BTS for giving information to all MSs within the cell?
Option A:	BCCH
Option B:	CCCH
Option C:	DCCH

Option D:	TCH
Q21.	In GSM System architecture which interface is used between RSS and NSS?
Option A:	Um
Option B:	Abis
Option C:	O
Option D:	A
Q22.	Frequency Division Multiplexing is useful for
Option A:	Increase the information transmission rate
Option B:	Spitting the carrier frequency band into smaller slots to handle different users
Option C:	To use different frequency bands for different signals
Option D:	To protect all small signals in PCM from quantizing noise
Q23.	In GSM System numbers of channels (pair) are
Option A:	72
Option B:	108
Option C:	250
Option D:	124
Q24.	Hidden and exposed terminal problem is solved by
Option A:	TCP
Option B:	AODV
Option C:	Internet Protocol
Option D:	MACA Protocol
Q25.	The power of the received signal changes considerably over the time which is called as
Option A:	Shadowing
Option B:	Reflection
Option C:	Fading
Option D:	Diffraction

Program: BE Mechanical Engineering

Curriculum Scheme: Revised 2016

Examination: Final Year Semester VII

Course Code and Course Name: MEC702 CAD/CAM/CAE

Time: 1 hour

Max. Marks: 50

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

Q/N	Text
Q1.	The following is not a graphics standard:
Option A:	IEEE
Option B:	IMAP
Option C:	UNIX
Option D:	PHIGS
Q2.	In CIM, _____ is used for data store and sharing of information of the company.
Option A:	A) Robots
Option B:	B) CNC
Option C:	C) Database management system
Option D:	D) RP
Q3.	A scaling constant > 1 , represents
Option A:	Expansion
Option B:	Compression
Option C:	unchanged values
Option D:	Reflection
Q4.	The process of extracting a portion of a database or a picture inside or outside a specified region are called
Option A:	Transformation
Option B:	Projection
Option C:	Clipping
Option D:	Mapping
Q5.	Which process uses a dual tip nozzle to extract part material & support material
Option A:	Laminated object manufacturing
Option B:	Fused deposition modelling
Option C:	Stereolithography Approach
Option D:	Selective Laser Sintering
Q6.	“CNC Machining Centres” do not include operations like _____

Option A:	Milling
Option B:	Boring
Option C:	Welding
Option D:	Tapping
Q7.	Which of the following is a Synthetic entity?
Option A:	Line
Option B:	Circle
Option C:	Spline
Option D:	Parabola
Q8.	Which of the following module of FEA is used to determine natural frequency?
Option A:	Static analysis
Option B:	Thermal analysis
Option C:	Modal analysis
Option D:	Fluent analysis
Q9.	Manufacturing, Strategic planning, Marketing, Finance are the components of
Option A:	CNC
Option B:	DNC
Option C:	CNC
Option D:	CIM
Q10.	Laminated object manufacturing is a type of
Option A:	Solid based RPT
Option B:	Liquid based RPT
Option C:	Powder based RPT
Option D:	Selective laser sintering
Q11.	During the execution of a CNC part program block NO20 GO2 X45.0 Y25.0 R5.0 the type of tool motion will be
Option A:	(a)Circular Interpolation - clockwise
Option B:	(b)Circular Interpolation - counterclockwise
Option C:	(c)Linear Interpolation
Option D:	(d)Rapid feed
Q12.	A _____ transformation alters the size of an object
Option A:	Rotation
Option B:	Scaling
Option C:	Translation
Option D:	Shear
Q13.	The degree of the B-spline with varying knot vectors:
Option A:	Increases with knot vectors
Option B:	Decreases with knot vectors
Option C:	Remains constant

Option D:	Does not depend on knot vectors
Q14.	The strain energy per unit volume is equal to _____.
Option A:	$(1/2) * \text{Force} * \text{Deflection}$
Option B:	$(1/4) * \text{Force} * \text{Deflection}$
Option C:	$(1/2) * \text{Stress} * \text{Deflection}$
Option D:	$(1/4) * \text{Stress} * \text{Deflection}$
Q15.	CIM relies on
Option A:	Open loop system
Option B:	Closed loop system
Option C:	Direct loop system
Option D:	Indirect loop system
Q16.	The software used for the purpose of mass property calculations, assembly analysis. Tolerance analysis. Finite element analysis. Mechanisms analysis. Sheet metal design. Analysis of plastic injection molding. And animation techniques. is:
Option A:	Graphics software
Option B:	Operating system
Option C:	Application software
Option D:	Programming language
Q17.	M13 stands for _____
Option A:	(a) Coolant on
Option B:	(b) Coolant off
Option C:	(c) Spindle moves clockwise
Option D:	(d) Spindle moves clockwise & Coolant on
Q18.	The screen is scanned from left to right. top to bottom all the time to generate graphics by:
Option A:	Raster scans
Option B:	Random scan
Option C:	Vector scan
Option D:	Stoke writing
Q19.	The truss element can resist only
Option A:	axial force
Option B:	surface force
Option C:	point load
Option D:	center force
Q20.	In equation of line $y=2x+4$, what will be the value of t_y in case of inverse translation matrix
Option A:	-4
Option B:	4
Option C:	2

Option D:	-2
Q21.	The act of turning a digital 3D model into thin layers used for 3D printing
Option A:	Fused deposition modeling
Option B:	Extruder
Option C:	Slicing
Option D:	Filament
Q22.	Which for the following is example of random scan system
Option A:	Laser Printer
Option B:	Dot Matrix printer
Option C:	Inkjet printer
Option D:	Pen plotter
Q23.	CNC drilling machine is considered to be a:
Option A:	Servo-controlled machine
Option B:	Straight line controlled machine
Option C:	Continuous path controlled machine
Option D:	Point-to-point controlled machine
Q24.	The type of rapid prototyping system uses a laser to fuse powdered metals, plastics, or ceramics:
Option A:	Fused deposition modelling
Option B:	Stereolithography apparatus
Option C:	Solid ground curing
Option D:	Selective laser sintering
Q25.	Finite element analysis deals with _____
Option A:	approximate numerical solution
Option B:	non-boundary value problems
Option C:	partial differential equations
Option D:	Laplace equations

Program: BE Electronics and Telecommunication Engineering

Curriculum Scheme: Revised 2016

Examination: Final Year Semester VII

Course Code: ECC 702 and Course Name: Mobile Communication System

Time: 1 hour

Max. Marks: 50

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

Q1.	The interference between the neighboring base stations is avoided by
Option A:	Assigning different group of channels
Option B:	Using transmitters with different power level
Option C:	Using different antenna types
Option D:	Using transmitters with different antenna lengths
Q2.	Traffic intensity is expressed in
Option A:	Erlangs /MHz /km
Option B:	Erlangs
Option C:	sec
Option D:	dB/sec
Q3.	Umbrella cell approach
Option A:	Uses large cells only
Option B:	Uses fixed antenna heights
Option C:	Is used for high speed users with large coverage area & low speed users with small coverage area
Option D:	Uses small cells only
Q4.	Which can be repeated any number of times in systematic manner in order to cover the large geographical area
Option A:	Cell
Option B:	Cluster
Option C:	Cell-site
Option D:	Channel
Q5.	Multiple copies of a transmitted signal are received at the receiver, due to the presence of multiple radio paths
Option A:	Reflection
Option B:	Diffraction
Option C:	Multipath
Option D:	Scattering
Q6.	Frequency division duplexing(FDD) uses

Option A:	Time in Forward link and Time in Reverse link
Option B:	Frequency in Forward link and Frequency in Reverse link
Option C:	Time in Forward link and Frequency in Reverse link
Option D:	Frequency in Forward link and Time in Reverse link
Q7.	PN sequence converts
Option A:	Narrowband to wideband signal
Option B:	Wideband to narrowband signal
Option C:	Unmodulated to modulated signal
Option D:	Low frequency to high frequency signal
Q8.	Small Scale fading based on doppler spread is
Option A:	Flat Fading
Option B:	Frequency Selective Fading
Option C:	Fast Fading and Slow Fading
Option D:	Coherence Bandwidth
Q9.	Organization is responsible for developing LTE standards
Option A:	UMTS
Option B:	3GPP
Option C:	3GPP2
Option D:	ISO
Q10.	Which of the following is the advantage of LTE
Option A:	Low throughput
Option B:	High latency
Option C:	Superior end-user experience
Option D:	Complex architecture
Q11.	LTE supports flexible carrier bandwidths from
Option A:	1.4 MHz up to 20 MHz
Option B:	868 KHz to 978 KHz
Option C:	1MHz to 5MHz
Option D:	100MHz to 500MHz
Q12.	PBCH scrambled with
Option A:	Current frame number
Option B:	Physical cell ID
Option C:	Not scrambled
Option D:	Current Slot Number
Q13.	Which digital modulation is used in the CDMA reverse channel.
Option A:	BPSK
Option B:	QPSK
Option C:	OQPSK
Option D:	OFDM

Q14.	A mobile assisted power control on the forward channel is implemented to reduce _____ interference.
Option A:	Co-channel
Option B:	Inter-cell
Option C:	Intra-cell
Option D:	Near-far
Q15.	Value of E_b/N_0 is usually depends on the speed of the mobile user, propagation conditions, and the diversity scheme used in CDMA systems is
Option A:	9dB
Option B:	6dB
Option C:	12dB
Option D:	18dB
Q16.	The function of block interleaver in IS95 is
Option A:	Protect from single bit errors
Option B:	Protect from multiple bit errors
Option C:	Protect from burst errors
Option D:	Protect from multipath
Q17.	Which of the following leads to evolution of 3G networks in CDMA systems?
Option A:	IS-95
Option B:	IS-95B
Option C:	CdmaOne
Option D:	Cdma2000
Q18.	UMTS stands for
Option A:	Universal Mobile Telecommunication System
Option B:	Ubiquitous Mobile Telephone System
Option C:	Ubiquitous Mobile Telemetry System
Option D:	Universal Machine Telemedicine System
Q19.	Multiple access technique used in UMTS is
Option A:	CDMA
Option B:	TDMA
Option C:	FDMA
Option D:	SDMA
Q20.	chip rate of W-CDMA is
Option A:	1.2288 Mcps
Option B:	3.84 Mcps
Option C:	270.833 Mcps
Option D:	100 Mcps
Q21.	Maximal length sequences are

Option A:	Output of an LFSR with maximum period
Option B:	Output of an LFSR with seed=0
Option C:	Output of an LFSR without feedback
Option D:	Output with feed forward shift registers
Q22.	Which is not a position sensing technique?
Option A:	Radio vision
Option B:	Radio networking
Option C:	Radio sensing
Option D:	Radio hearing
Q23.	Which of the following is not a processing scheme at the relay
Option A:	Amplify and forward
Option B:	Decode and forward
Option C:	Compress and forward
Option D:	Compress and reverse
Q24.	Multihop relaying in large networks requires
Option A:	Joint routing
Option B:	Independent resource allocation
Option C:	Independent routing
Option D:	No resource allocation
Q25.	Which algorithm provides shortest path routing method
Option A:	Dijkstra and Bellman Ford
Option B:	Flooding and Directed Diffusion
Option C:	Directed Diffusion and Leach
Option D:	Leach and Flooding

Program: BE Information Technology

Curriculum Scheme: Revised 2016

Examination: Final Year Semester VII

Course Code: **ITC702** and Course Name: **Infrastructure Security**

Time: 1 hour

Max. Marks: 50

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

Q1.	_____ is a hashing algorithm.
Option A:	RSA
Option B:	MD5
Option C:	Bella-padula
Option D:	Biba
Q2.	Which one is not included in Access control policies?
Option A:	MAC
Option B:	DAC
Option C:	RBAC
Option D:	OTP
Q3.	USIM stands for
Option A:	Universal Services Identity Module
Option B:	Universal Subscriber Identity Module
Option C:	User Services Identity Method
Option D:	User Subscriber Identity Module
Q4.	Which from the following is not in the plan of Mitigation strategy?
Option A:	The Disaster Recovery Plan
Option B:	Incident Response Plan
Option C:	Security design plan
Option D:	Business Continuity Plan
Q5.	When an owner of a resource can choose to give read, write, execute access to a resource, it is_____ type of access control method?
Option A:	DAC (Discretionary Access Control)
Option B:	MAC (Mandatory Access Control)
Option C:	ABAC (Attribute-Based Access Control)
Option D:	RBAC (Role Based Access Control)
Q6.	Which one is the correct solution for having an effect of the unbounded number if base/bound registers?

Option A:	Fence method
Option B:	Relocation Method
Option C:	Tagged architecture
Option D:	Segmentation
Q7.	The formula for a soft drink is_____
Option A:	Copyright
Option B:	Patent
Option C:	Trade Secret
Option D:	License
Q8.	Select appropriate command to retrieve information from a SQL database
Option A:	INSERT
Option B:	GET
Option C:	SET
Option D:	SELECT
Q9.	Which of the following is not an example of behavioral biometric?
Option A:	Fingerprint scan
Option B:	Speed of typing
Option C:	Voice check
Option D:	Signature check
Q10.	Which option correctly specifies the meaning for a user to access a database through a multi-tier infrastructure?
Option A:	The user opens connections to multiple databases simultaneously
Option B:	Multiple levels of access to the database are available to the user
Option C:	Each user connected to the database is layered to improve performance
Option D:	The user accesses the database through web or application servers
Q11.	Which option specifies appropriate countermeasures for Trojan and backdoor?
Option A:	Scan the hard drive on the network connection, and educate users not to install unknown software.
Option B:	Implement a network firewall.
Option C:	Implement personal firewall software.
Option D:	Educate systems administrators about the risks of using systems without firewalls.
Q12.	Which protocol is not used for tunneling the packets in VPN?
Option A:	PPTP
Option B:	L2TP
Option C:	SMTP
Option D:	IPSec
Q13.	The encryption algorithm used in WEP is
Option A:	RC4

Option B:	A5/1
Option C:	A3
Option D:	A8
Q14.	Which one is not a common threat with respect to WLAN security?
Option A:	Rogue Access Points/Ad-Hoc Networks
Option B:	Denial of Service
Option C:	Configuration Problems (Mis-Configurations/Incomplete Configurations)
Option D:	Buffer Overflow
Q15.	Which one is not a type of web cookies
Option A:	Secure cookie
Option B:	Persistent cookie
Option C:	Http only cookie
Option D:	Brown Cookie
Q16.	Which one is not a malware in the list below?
Option A:	Virus
Option B:	Buffer Overflow
Option C:	Trojan
Option D:	Worm
Q17.	_____ is an attack which forces an end user to execute unwanted actions on a web application in which he/ she is authenticated.
Option A:	Two factor authentication
Option B:	Cross site scripting
Option C:	Cross site request forgery
Option D:	Cross site scoring script
Q18.	Which statement is not true with respect to WIDS
Option A:	It protects WLAN against known attacks using Signature-based IDS
Option B:	It protects WLAN against new or slight variation in the known attack using Anomaly-based IDS
Option C:	The signature database must be updated to detect all known attacks.
Option D:	Anomaly-based IDS can always detect an unknown attack
Q19.	The three assertions defined by SAML are
Option A:	Authentication, Subject and Service provider
Option B:	Authentication and Authorization
Option C:	Authentication, Key exchange and Authorization
Option D:	Authentication, Attribute and Authorization decision
Q20.	In Software as a service (SaaS)_____ is largely responsible for securing application and components
Option A:	Cloud Service Consumer (CSC)
Option B:	Cloud Broker

Option C:	The Cloud service provider (CSP)
Option D:	Cloud auditor
Q21.	The Correct sequence for The Identity management lifecycle is
Option A:	Provisioning, password management, compliance, authentication, authorization, self-service, de-provisioning.
Option B:	Self-service, password management, provisioning, authentication, authorization, compliance, de-provisioning.
Option C:	Provisioning, authentication, authorization, self-service, password management, compliance, de-provisioning.
Option D:	Authentication, authorization, provisioning, self-service, compliance, password management, de-provisioning.
Q22.	Which of the following would be considered an example of insufficient due diligence leading to security or operational problems when moving to a cloud?
Option A:	Monitoring
Option B:	Use of a remote key management system
Option C:	Programming languages used
Option D:	Reliance on physical network controls
Q23.	What kind of firewall is connected between the device and the network connecting to the internet?
Option A:	Hardware Firewall
Option B:	Software Firewall
Option C:	Stateful Inspection Firewall
Option D:	Microsoft Firewall
Q24.	Which of the following are most vulnerable to injection attacks?
Option A:	Session IDs
Option B:	Registry keys
Option C:	Network communications
Option D:	SQL queries based on user input
Q25.	Which one is not a web based attack
Option A:	Injections (SQL, LDAP)
Option B:	Cross site scripting
Option C:	Security Misconfiguration
Option D:	Cross site request forgery

Program: BE Instrumentation Engineering

Curriculum Scheme: Revised 2016

Examination: Final Year Semester VII

Course Code: ISC702 Course Name: Biomedical Instrumentation

Time: 1hour

Max. Marks: 50

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

Q1.	Sodium-potassium pump, is used for
Option A:	Depolarization
Option B:	Repolarization
Option C:	Action potential
Option D:	Zero potential
Q2.	The main design feature of pre-gelled disposable electrodes which helps to reduce the possibility of artefacts, drift and baseline wandering is _____
Option A:	High absorbency buffer layer without isotonic electrolyte
Option B:	Low absorbency buffer layer with isotonic electrolyte
Option C:	Low absorbency buffer layer without isotonic electrolyte
Option D:	High absorbency buffer layer with isotonic electrolyte
Q3.	The material used in limb surface electrode is _____
Option A:	German silver
Option B:	Copper
Option C:	Gold
Option D:	Platinum
Q4.	Electrooculography (EOG) is a technique for measuring what?
Option A:	Cornea-retinal standing potential
Option B:	Heart rate
Option C:	Abnormal function of retina
Option D:	Respiration rate
Q5.	Which of the following amplifier circuitry is employed to reduce the hum noise generated by the power supply in the ECG circuit?
Option A:	band pass filters
Option B:	high pass filters
Option C:	notch filters
Option D:	low pass filters
Q6.	Electrodes to measure EEG signal are placed on
Option A:	forehead
Option B:	scalp
Option C:	cheek
Option D:	ears

Q7.	Which rhythm is the principal component of the EEG that indicates the alertness of the brain?
Option A:	theta rhythm
Option B:	gamma rhythm
Option C:	delta rhythm
Option D:	alpha rhythm
Q8.	The site of respiration inside the lungs are
Option A:	Alveoli
Option B:	Diaphragm
Option C:	Bronchi
Option D:	Bronchioles
Q9.	When intramuscular EMG is required to look into the electrical activities of deeper or overlaid muscles, which electrodes are used?
Option A:	plate shape electrodes
Option B:	surface electrodes
Option C:	thin thread electrodes
Option D:	fine wire electrodes
Q10.	Which measurements are important for myoelectric control of prosthetic devices?
Option A:	PCG
Option B:	ECG
Option C:	EEG
Option D:	EMG
Q11.	Which type of transducer is commonly used for invasive blood pressure measurement?
Option A:	Capacitive
Option B:	Rheostatic
Option C:	Piezoelectric
Option D:	Potentiometric
Q12.	Which of the following is the correct formula for cardiac output?
Option A:	stroke volume/ heart rate
Option B:	stroke volume*resistance
Option C:	heart rate / resistance
Option D:	stroke volume* heart rate
Q13.	Which instrument is used for measuring heart sounds of the human body?
Option A:	Phonocardiograph
Option B:	Sphygmomanometer
Option C:	Reflex hammer
Option D:	Suction device
Q14.	What is used as a photodetector in pulse oximetry?
Option A:	Phototransistor

Option B:	Solar cell
Option C:	Photodiode
Option D:	Photographic plates
Q15.	Which of the following is not part of pacemaker circuit
Option A:	Oscillator
Option B:	Pulse output circuit
Option C:	Battery
Option D:	Transformer
Q16.	Pump oxygenator is also known as
Option A:	dialyzer
Option B:	demand type pacemaker
Option C:	heart lung machine
Option D:	electroencephalograph
Q17.	Which instrument is used to resume synchronization between heart chambers
Option A:	Fibrillator
Option B:	Defibrillator
Option C:	Electrocardiograph
Option D:	Phonocardiogram
Q18.	During dialysis which factor is used to avoid clotting of blood
Option A:	Roller pump
Option B:	Heparin infusion
Option C:	Glucose powder
Option D:	Conductivity cell
Q19.	Following is not Ventilator related parameter
Option A:	Lung Compliance
Option B:	Mean Airway pressure
Option C:	Pulse pressure
Option D:	Tidal volume
Q20.	Which of the following is used as cooling system in X-ray tube
Option A:	Rotating Anode
Option B:	Rotating Cathode
Option C:	rotating anode and cathode
Option D:	dynode
Q21.	Hounsfield number "H" is used in
Option A:	X-ray
Option B:	NMR spectroscopy
Option C:	Radioactivity
Option D:	CT scanning
Q22.	Ultrasound imaging uses _____ frequency range
Option A:	2.5 MHz to 10 MHz

Option B:	50 MHz to 100 MHz
Option C:	2 KHz to 20 KHz
Option D:	20 Hz to 20KHz
Q23.	The commonly used MRI's have a magnetic strength of _____
Option A:	3 – 6 Tesla
Option B:	1.5 – 3 Tesla
Option C:	6 – 12 Tesla
Option D:	12 – 24 Tesla
Q24.	The smallest unit in the reconstruction/projection of an MRI image is called as
Option A:	pixel
Option B:	binary unit
Option C:	voxel
Option D:	dot
Q25.	Following is not a method to prevent electrical accidents in medical practice
Option A:	Isolated power distribution
Option B:	Isolation of patient connected part
Option C:	Protection by low voltage
Option D:	Use plastic material