Program: Electronics and Telecommunication Engineering

Curriculum Scheme: Rev 2016 Examination: Third Year Semester VI

Course Code: ECC602 and Course Name: Computer Communication Network (CCN)

Time: 1 hour Max. Marks: 50

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

Q1.	A device that is used to connect a number of LANs is –
Option A:	Router
Option B:	Repeater
Option C:	Bridge
Option D:	Switch
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Q2.	What is the function of Network Interface Cards?
Option A:	connects the clients, servers and peripherals to the network through a port
Option B:	allows you to segment a large network into smaller, efficient networks
Option C:	connects networks with different protocols like TCP/IP
Option D:	boost the signal between two cable segments or wireless access points
Q3.	Which transmission media provides the highest transmission speed in a network?
Option A:	coaxial cable
Option B:	twisted pair cable
Option C:	optical fibre
Option D:	electrical cable
Q4.	Bits can be sent over guided and unguided media as analog signal by
Option A:	digital modulation
Option B:	amplitude modulation
Option C:	frequency modulation
Option D:	phase modulation
Q5.	The physical layer translates logical communication requests from the
	into hardware specific operations.
Option A:	data link layer
Option B:	network layer
Option C:	transport layer
Option D:	application layer
Q6.	If link transmits 4000 frames per second, and each slot has 8 bits, the
	transmission rate of circuit this TDM is
Option A:	32kbps
Option B:	500bps
Option C:	500kbps
Option D:	32bps

Q7.	Both Go-Back-N and Selective-Repeat Protocols use a .
Option A:	sliding frame
Option B:	sliding window
Option C:	sliding packet
Option D:	sliding bits
option B.	
Q8.	High-level Data Link Control (HDLC) is a protocol for communication
Q 5.	over point-to-point and multipoint links.
Option A:	bit-oriented
Option B:	Byte-oriented
Option C:	Character-oriented
Option D:	Frame-oriented
o process z v	
Q9.	Which sublayer of the data link layer performs data link functions that depend
	upon the type of medium?
Option A:	logical link control sublayer
Option B:	media access control sublayer
Option C:	network interface control sublayer
Option D:	error control sublayer
Q10.	When 2 or more bits in a data unit has been changed during the transmission, the
	error is called
Option A:	random error
Option B:	burst error
Option C:	inverted error
Option D:	double error
Q11.	Which of the following is the multiple access protocol for channel access control?
Option A:	CSMA/CD
Option B:	CSMA/CA
Option C:	CSMA/CD and CSMA/CA both
Option D:	HDLC
Q12.	MAC address is of
Option A:	24 bits
Option B:	36 bits
Option C:	42 bits
Option D:	48 bits
Q13.	In each station sends a frame whenever it has a frame to send.
Option A:	pure ALOHA
Option B:	slotted ALOHA
Option C:	CSMA
Option D:	CSMA/CD
Q14.	After performing bit stuffing on the following stream:
	01101111111111111110010, the output is-
Option A:	011011111011111100010

	Examination 2020
Option B:	01101111111111111110010111
Option C:	10010000000000000001101
Option D:	0110111111111111111110010
Q15.	In virtual circuit network each packet contains
Option A:	full source and destination address
Option B:	a short VC number
Option C:	only source address
Option D:	only destination address
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Q16.	ICMP is primarily used for
Option A:	error and diagnostic functions
Option B:	Addressing
Option C:	Forwarding
Option D:	Routing
017	The commentation of the about to the OCDE:
Q17.	The computation of the shortest path in OSPF is usually done by
Option A:	Bellman-ford algorithm
Option B:	Routing information protocol
Option C:	Dijkstra's algorithm
Option D:	Distance vector routing
010	command is yeard to manipulate TCD/ID payting table
Q18.	command is used to manipulate TCP/IP routing table Route
Option A: Option B:	
Option C:	Ipconfig Ifconfig
Option D:	Ifconfig Traceroute
Option D.	Traceroute
Q19.	If the value in protocol field is 17, the transport layer protocol used is
Option A:	TCP
Option B:	UDP
Option C:	ICMP
Option D:	IGMP
орион Б.	TOTAL
Q20.	Connection establishment in TCP is done by which mechanism?
Option A:	Flow control
Option B:	Three-Way Handshaking
Option C:	Forwarding
Option D:	Synchronization
Q21.	A client that wishes to connect to an open server tells its TCP that it needs to be
	connected to that particular server. The process is called
Option A:	Active open
Option B:	Active close
Option C:	Passive close
Option D:	Passive open
•	•
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Q22. In segment header, sequence number and acknowledgement number fields refeto Option A: Byte number Option B: Buffer number Option C: Segment number Option D: Acknowledgment Q23. The field is used to detect errors over the entire user datagram. Option A: udp header Option B: Checksum Option C: source port Option D: destination port Q24. The port number is "ephemeral port number", if the source host is Option A: NTP Option B: Echo Option C: Server
Option A: Byte number Option B: Buffer number Option C: Segment number Option D: Acknowledgment Q23. The field is used to detect errors over the entire user datagram. Option A: udp header Option B: Checksum Option C: source port Option D: destination port Q24. The port number is "ephemeral port number", if the source host is Option A: NTP Option B: Echo
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Option C: source port Option D: destination port Q24. The port number is "ephemeral port number", if the source host is Option A: NTP Option B: Echo
Option D: destination port Q24. The port number is "ephemeral port number", if the source host is Option A: NTP Option B: Echo
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Option A: NTP Option B: Echo
Option A: NTP Option B: Echo
Option B: Echo
*
Ontion C: Server
option c. borror
Option D: Client
Q25. The probability of the error in a transmitted block with the length of
the block
Option A: Remains same
Option B: Decreases
Option C: Increases
Option D: Is not proportional

Program: Electronics and Telecommunication Engineering

Curriculum Scheme: Rev2016 Examination: Third Year Semester VI

Course Code: ECC 602 and Course Name: Computer Communication Network (CCN)

Time: 1 hour Max. Marks: 50

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

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Program: BE Electronics & Telecommunication Engineering

Curriculum Scheme: Revised 2016

Examination: Third Year Semester VI

Course Code: ECC603 and Course Name: Antenna and Radio Wave Propagation

Time: 1 hour Max. Marks: 50

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

Q1.	The solid area through which all the power radiated by the antenna is:
Option A:	beam area
Option B:	effective area
Option C:	aperture area
Option D:	beam efficiency
Q2.	Which of the following is not the wire antenna?
Option A:	loop antenna
Option B:	helical antenna
Option C:	dipole antenna
Option D:	horn antenna
Q3.	In circular polarization the electric field
Option A:	is confined to single plane
Option B:	has two linear components with equal amplitudes and a phase difference of $\pi/2$
Option C:	has two linear components with differing amplitudes and a phase difference of
	$\pi/2$
Option D:	has two linear components with equal amplitudes and a phase difference of π
Q4.	What is the minimum distance required to measure the field pattern of an antenna
	of diameter 2m at a
	frequency of 3 GHz?
Option A:	80 m
Option B:	40 m
Option C:	20 m
Option D:	10 m
Q5.	Alternating current element is given by
Option A:	Idl
Option B:	I dl cosωt
Option C:	I dl sinωt
Option D:	
0.6	
Q6.	The HΦ Component will consists of field :

Option A:	Radiation
Option B:	Induction
Option C:	Radiation & Induction
Option D:	Electrostatic
Q7.	A helical antenna is used for satellite tracking because of its:
Option A:	Circular polarization
Option B:	Maneuverability
Option C:	Broad bandwidth
Option D:	Good front-to-back ratio
Q8.	The radiation resistance of a circular loop of a turn is 0.01Ω . The radiation
	resistance of five turns of such a loop will be:
Option A:	0.002Ω
Option B:	0.01 Ω
Option C:	0.05 Ω
Option D:	0.25 Ω
Q9.	Significance of Array antenna is to
Option A:	reduce the physical size of antenna
Option B:	reduce the weight of antenna
Option C:	enhance the gain of antenna
Option D:	increase the beamwidth of radiation pattern of antenna
Q10.	If an array of identical elements and excited with identical magnitude and each
	with a progressive phase is referred to as a
Option A:	non-uniform array
Option B:	Uniform array
Option C:	resistor array
Option D:	Unequal spaced non identical magnitude array
Q11.	In an uniform broadside array to ensure that there are no grating lobes, the
	maximum separation (dmax) between the elements should be
Option A:	$dmax > 2 \lambda$
Option B:	$dmax < \lambda$
Option C:	$dmax > \lambda$
Option D:	$dmax < 2 \lambda$
Q12.	If the individual antennas of the array are spaced equally along a straight line.
	Then It isarray.
Option A:	Circular
Option B:	Non-Linear.
Option C:	Linear.
Option D:	Rectangular

Q13.	In horn antenna, to radiate the energy in the forward direction, the waveguide
	should be provided with an extended aperture to make the abrupt discontinuity of
Ontion A.	the wave into a gradual transformation. This is called as
Option A:	flaring
Option B:	fading
Option C:	truncating
Option D:	terminating
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Q14.	Antenna that does not belong to the horn antenna family among the following are:
Option A:	Pyramidal
Option B:	Conical bi-conical
Option C:	
Option D:	linear wire
Q15.	A parabola in receiving mode, the radiation will converge at a spot which is
	known as the
Option A:	Ground point.
Option B:	Crest
Option C:	Vertex point
Option D:	focal point.
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Q16.	In E-sectoral Horn antenna has
Option A:	only broad wall of rectangular waveguide is flared
Option B:	only short wall of rectangular waveguide is flared
Option C:	both walls of rectangular waveguide are flared
Option D:	both walls of rectangular waveguide are not flared
•	
Q17.	Fundamental mode of rectangular microstrip patch antenna (RMSA) is
Option A:	TM_{01}
Option B:	TM_{10}
Option C:	TM_{00}
Option D:	TM_{11}
Q18.	Looking at the current variation along the patch of MSA, the current is
	at the center and near the left and right edges.
Option A:	maximum, minimum
Option B:	minimum, maximum
Option C:	Half, minimum
Option D:	zero, maximum
010	
Q19.	In Microstrip antenna with coaxial-line feed, as thickness of substrate increases,
0.4:	antenna impedance becomes
Option A:	inductive
Option B:	capacitive
Option C:	resistive
Option D:	zero

Q20.	How are the infinitesimal dipoles represented in terms of antenna length and
Q20.	signal wavelength:
Option A:	$1 \leq (\lambda / 50)$
Option B:	$(\lambda/50) < I \le (\lambda/10)$
Option C:	$1 = \lambda/2$
Option C:	$1 = \lambda/4$
Орион В.	1 N/T
Q21.	Which type of ground wave travels over the earth surface by acquiring direct
Q21 .	path through air from transmitting to receiving antennas?
Option A:	Surface wave
Option B:	Space wave
Option C:	Ground wave
Option D:	Super Wave
•	
Q22.	The radio waves were demonstrated experimentally by
Option A:	Hertz
Option B:	Maxwell
Option C:	Marconi
Option D:	Armstrong
Q23.	Determine critical frequency for reflection at vertical incidence if the maximum
	value of electron density is 2.24×10^6 per C.C (Cubic Centimeter) if value of g =
	9 approx.
Option A:	13.46KHz
Option B:	15.15KHz
Option C:	20.16KHz
Option D:	25.18Khz
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Q24.	The critical frequency of E layer which is observed at a particular time are
0.4: 4	2.5MHz Calculate the maximum electron density of the layer
Option A:	77.16X 10 ⁹ CC/meter
Option B:	25.5X10 ⁹ CC/meter
Option C:	30.5X10 ⁹ CC/meter
Option D:	35.5X10 ⁹ CC/meter
Q25.	The line of side distance or range of space wave propagation is given by
Option A:	d=3.57[$\sqrt{h_t} + \sqrt{h_r}$]
Option B:	$d=1.75[\sqrt{h_t}+\sqrt{h_r}]$
Option C:	$d=2.57[\sqrt{h_t}+\sqrt{h_r}]$
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Option D:	$d=2.57[\sqrt{h_r}]$

Examination 2020

Program: BE Electronics & Telecommunication Engineering

Curriculum Scheme: Revised 2016

Examination: Third Year Semester VI

Course Code: ECC603 and Course Name: Antenna and Radio Wave Propagation

Time: 1 hour Max. Marks: 50

Question	Correct Option
	(Enter either 'A' or 'B' or 'C' or 'D')
Q1.	A
Q2.	D
Q3.	В
Q4	A
Q5	В
Q6	С
Q7	A
Q8.	С
Q9.	С
Q10.	С
Q11.	В
Q12.	С
Q13.	A
Q14.	D
Q15.	D
Q16.	A
Q17.	В

Q18.	A
Q19.	A
Q20.	A
Q21.	В
Q22.	A
Q23.	A
Q24.	В
Q25.	A

Program: Electronics and Telecommunication Engineering

Curriculum Scheme: <u>Rev 2016</u> Examination: Third Year Semester <u>VI</u>

Course Code: ECC604 and Course Name: Image Processing and Machine Vision

Time: 1 hour Max. Marks: 50

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

01	W1:1, C: 1: 11 1 1: 0
Q1.	Which transform is used in subband coding?
Option A:	DFT
Option B:	DCT
Option C:	Walsh-Hadamard Transform
Option D:	Haar Transform
Q2.	Which is the energy efficient transforms
Option A:	Hit-or-Miss Transform
Option B:	Hough Transform
Option C:	Discrete Cosine Transform
Option D:	Power Law Transform
Q3.	Rods receptors in human eye are sensitive to
Option A:	Bright-Light
Option B:	Red, Green, Blue
Option C:	Dim-Light
Option D:	Back and White.
Q4.	The person enters cinema hall didn't see anything due to
Option A:	Weber ratio
Option B:	brightness adaptation
Option C:	blind spot in an eye
Option D:	Photopic vision
Q5.	To make central Fourier spectrum, which operation is carried out on input image.
Option A:	Rotation
Option B:	Scaling image by factor 2
Option C:	multiplying image by (-1)^(x+y) where x,y are coordinates of pixel.
Option D:	Adding 128 to each pixel
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Q6.	The smallest change in intensity level is called
Option A:	spatial resolution
Option B:	gray level resolution
Option C:	geometric resolution
Option D:	optical resolution
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Q7.	Pixels where intensity changes adruptly are called
Option A:	Area pixels
Option B:	edge pixels
Option C:	intensity pixels
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	Examination 2020
Option D:	gray pixels
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Q8.	What is the sequency of Walsh-Hadamard Matrix with N=4?
Option A:	(1 2 3 4)
Option B:	(0 1 3 2)
Option C:	(0 3 1 2)
Option D:	(0 1 2 3)
Q9.	Filter with size 3x3 results into replacing the center pixel value with 5 th element from pixels arranged in ascending order of their values.
Option A:	Median Filter
Option B:	Mean Filter
Option C:	Min Filter
Option D:	Max Filter
Q10.	The system's ability to set classification parameters for object recognition is called
Option A:	classifier learning
Option B:	evaluation settings
Option C:	discrimination function
Option D:	System definition
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Q11.	In case of chain code following is true, except
Option A:	Chain codes can be normalized for rotation
Option B:	Normalization are exact only if the boundaries themselves are invariant to rotation
Option C:	First difference of chain code is rotation invariant
Option D:	size normalization cannot be achieved
Q12.	Which operator is used to detect isolated point in segmentation?
Option A:	Prewitt operator
Option B:	Laplacian operator
Option C:	Sobel operator
Option D:	Robert cross gradient
Q13.	Which is not a gradient operator for edge detection?
Option A:	Laplacian operator
Option B:	Roberts operator
Option C:	Prewitt operator
Option D:	Sobel operator
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Q14.	Periodic noise is eliminated without compromising on small details and textures using
Option A:	Band pass filter
Option B:	Band reject filter
Option C:	Median filter
Option D:	Average Filter
1	
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Q15.	Texture means the following except	
Option A:	Texture means the following except Defined by pattern for a pixel	
Option B:	Spatial arrangement of intensities	
Option C:		
Option C:	repeating pattern distribution of intensity in neighbourhood	
Орион Б.	distribution of intensity in neighbourhood	
Q16.	What is the sum of all the components of a normalized histogram?	
Option A:	-1	
Option B:	0	
Option C:	size of image	
Option C:	1	
Орион Б.		
Q17.	Knowledge representation techniques used in AI do not include	
Option A:	predicate logic	
Option B:	production rules	
Option C:	control sophistication	
Option C:	semantic nets	
Орион Б.	Schiantic nets	
Q18.	When the noise is zero, then the noise power spectrum vanishes. It results into	
Option A:	Wiener filter dominates the inverse filter.	
Option B:	Inverse filter is converted into wiener filter.	
Option C:	Wiener filter reduces to the inverse filter.	
Option D:	Ratio of power spectrum of undegraded image to noise reduces to zero.	
Q19.	The image gets as a result of dilation process	
Option A:	Thinner	
Option B:	shrinked	
Option C:	thickened	
Option D:	sharpened	
Q20.	The function that describes relations between the classifier inputs and the output is called	
Option A:	the activation function	
Option B:	Weight function	
Option C:	discrimination function	
Option D:	the decision rule	
option B.	the decision rule	
Q21.	Which filter is used in Homomorphic filtering?	
Option A:	Gaussian high pass filter	
Option B:	Gaussian low pass filter	
Option C:	Butterworth low pass filter	
Option D:	Butterworth high pass filter	
From 2.		
Q22.	Which type of thresholding method is to be used for making segmentation	
Q22.	illumination invariant?	
	illumination invariant?	
Option A: Option B:		

Option C:	Adaptive Thresholding
Option D:	Least Square Thresholding
Q23.	The best filter to remove Gaussian noise is
Option A:	Arithmetic mean filter
Option B:	geometric mean filter
Option C:	contraharmonic mean filter
Option D:	median filter
Q24.	What is difference between the histogram of original image and its transposed
	image?
Option A:	No difference
Option B:	Histogram of transposed image is inverted
Option C:	More number of peaks in transposed image
Option D:	More number of peaks in original image
Q25.	Which training method is preferred in partitioning of two classes in situation
	where separating hyperplane cannot be found?
Option A:	predictive modeling
Option B:	Nonlinear transformation
Option C:	Maximum margin optimization
Option D:	Soft margin training

Program: Electronics and Telecommunication Engineering

Curriculum Scheme: <u>Rev2016</u> Examination: Third Year Semester <u>VI</u>

Course Code: ECC604 and Course Name: Image Processing and Machine Vision

Time: 1 hour Max. Marks: 50

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

Program: Electronics and Telecommunication Engineering

Curriculum Scheme: Rev 2016 Examination: Third Year Semester VI

Course Code: ECCDLO6021 and Course Name: Digital VLSI Design

Time: 1 hour Max. Marks: 50

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

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Q1.	Identify the following circuit	
	V_{DD}	
	b-qL a-qL	
	$\overline{\phi} \leftarrow \Box \qquad \overline{a \cdot b}$	
	$\phi \bullet \vdash \vdash c_{out} \vdash$	
	a•	
	b ← ├	
	<u> </u>	
Option A:	Clocked CMOS NAND	
Option B:	Dynamic NAND	
Option C:	CMOS NAND	
Option D:	Domino NAND	
Q2.	Identify the circuit	
	v _{os} v _{os}	
	s	
Option A:	NAND based CMOS JK Latch	
Option B:	NAND based CMOS JK Latch NOR based CMOS JK Latch	
Option C:	NOR based CMOS SR Latch	
Option D:	NAND based CMOS SR Latch	
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Q3.	Identify the circuit	

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Option A:	SR Latch	
Option B:	JK Latch	
Option C:	D Latch	
Option D:	Buffer	
1		
Q4.	Which one of the following circuit gives non-complementary output	
Option A:	CMOS	
Option B:	Dynamic CMOS	
Option C:	NORA	
Option D:	Domino	
Q5.	The advantage of mirror circuit is	
Option A:	Non symmetric layouts	
Option B:	Symmetric Layouts	
Option C:	Large rise time	
Option D:	Large fall time	
Q6.	For N-inputs Pseudo nMos requires	
Option A:	2N FET's	
Option B:	N+2 FET's	
Option C:	N+1 FET's	
Option D:	N FET's	
Q7.	If WL =0 and BL=0 an SRAM Cell behaves in	
Option A:	Read Mode	
Option B:	Write Mode	
Option C:	Latch Mode	
Option D:	Read- Write Mode	
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Q8.	Non-random memories have access time and area.	
Option A:	Slower, larger	
Option B:	Faster, smaller	
Option C:	Slower, smaller	
Option D:	Faster, larger	
Q9.	The time interval between the memory receiving a new address input and the data being available is called	
Option A:	Access time	
Option B:	Bus speed	
Option C:	Read/write data	

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Option D:	Read/write speed
Q10.	Which is a comparatively slower device?
Option A:	ROM
Option B:	RAM
Option C:	SRAM
Option D:	flash memory
Q11.	Identify following circuit
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Option A:	Mirror adder
Option B:	Carry look ahead adder
Option C:	Half adder
Option D:	4-bit adder
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Q12.	Carry bypass adder is also called as
Option A:	Carry select adder
Option B:	Manchester carry adder
Option C:	Carry Skip adder
Option D:	Carry save adder
-	
Q13.	For a full adder stage FAi in a carry look-ahead adder, which of the following statement is false?
Option A:	The carry generate function Gi will be 1 if both the inputs Ai and Bi are 1.
Option B:	The carry propagate function Pi will be 1 if at least one of the inputs Ai and Bi are 1.
Option C:	The carry generate function Gi will be 0 if exactly one of the inputs Ai and Bi are 0.
Option D:	The carry propagate function Pi will be 1 if both inputs are not equal
Q14.	Which statement is false about combinational array multiplier?
Option A:	Perform only unsigned integer product
Option B:	High gate count for large multiplication like 32 bit
Option C:	Extremely inefficient
Option D:	Low gate count for large multiplication like 32 bit
015	
Q15.	The geometrical dimensions of Interconnect set in processing are, and
Option A:	W, t, Tox

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Option B:	W, 1	
Option C:	W, 1, t	
Option D:	W, 1, Cox	
Q16.	is a phenomenon of pulsing a voltage on one of the lines induce	
(-3.	a stray signal on all lines that are coupled to it.	
Option A:	Interconnect	
Option B:	Crosstalk	
Option C:	Electro-migration	
Option C:		
Орион D.	Capacitance	
017	WI:1: 14 ' VICI1: 1	
Q17.	Which is right sequence in VLSI design cycle	
	1) Architectural Design	
	2) Functional Design	
	3) System Specification	
	4) Logic Design	
Option A:	1,2,3,4	
Option B:	4,3,2,1	
Option C:	3,1,2,4	
Option D:	1,4,2,3	
Q18.	Modelling an Interconnect line is by the use of	
Option A:	R,C	
Option B:	Only R	
Option C:	Only C	
Option D:	Only active element	
Q19.	Which of the following between FPGA and ASIC is not true	
Option A:	ASIC is slower than FPGA	
Option B:	The NRE cost in FPGA is minimal as compared to ASIC	
Option C:	FPGA is good for low volume designs whereas ASICS re good for high volume	
1	production for reduced cost	
Option D:	FPGA has faster time to market whereas ASIC requires larger design time	
True D.		
Q20.	An Antifuse programming technology is predominantly associated with	
Option A:	SPLDs	
Option B:	FPGAs	
Option C:	CPLDs	
Option D:	SOC	
Option D.		
Q21.	PLA is used to implement	
Option A:	A complex sequential circuit	
Option B:	A simple sequential circuit	
Option C:	A complex combinational circuit	
Option D:	A simple combinational circuit	
000	The state of the s	
Q22.	In data dominated design of 100 tap FIR filter requires	
Option A:	1 level of adder, 7 level of multipliers	

Option B:	7 level of adder, 1 level of multipliers	
Option C:	Only adders required	
Option D:	7 level of adder, 7 level of multipliers	
Q23.	RTL stands for	
Option A:	Resistor transistor logic	
Option B:	Resistor transfer logic	
Option C:	Register Transfer logic	
Option D:	Register transistor logic.	
Q24.	In HLSM "==" indicates	
Option A:	Equality	
Option B:	Comparison	
Option C:	Assignment	
Option D:	Conditional assignment	
Q25.	RTL is used in HDL to create what level of representations in the circuit?	
Option A:	High-level	
Option B:	Low-level	
Option C:	Mid-level Mid-level	
Option D:	Same level	

Program: Electronics and Telecommunication Engineering

Curriculum Scheme: Rev 2016 Examination: Third Year Semester VI

Course Code: ECCDLO6021 and Course Name: Digital VLSI Design

Time: 1 hour Max. Marks: 50

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

Program: BE Electronics and Telecommunication Engineering

Curriculum Scheme: Revised 2016

Examination: Third Year Semester VI

Course Code and Course Name: ECCDLO6022 and Radar Engineering

Time: 1 hour Max. Marks: 50

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

Q1.	In the following scan radar, the direction of the antenna beam does not coincide with the bore-sight, but revolves around, it seeking the target direction	
Option A:	Lobe switching or serquential switching	
Option B:	Monopulse	
Option C:	Conical Scan	
Option D:	Low angle tracking	
Q2.	The following technique keeps the beam pointed at the target to improve angle accuracy and it is based on the principle that the radar receiver will get maximum returned signal strength.	
Option A:	Lobe switching or serquential switching	
Option B:	Monopulse	
Option C:	Conical Scan	
Option D:	Low angle tracking	
0.2		
Q3.	Glint means	
Option A:	Range inaccuracy	
Option B:	Target phase fluctuations	
Option C:	Phase inaccuracy	
Option D:	Velocity fluctuations	
Q4.	If the feed maintains the plane of polarization fixed as it rotates, i t is called	
Option A:	Rotating Feed	
Option B:	Dipole feed	
Option C:	nutating feed	
Option D:	Cassegrain Feed	
Q5.	The radar that uses more than one beam simultaneously to measure the angular position of the target on a single pulse is	
Option A:	lobe switching	
Option B:	sequential lobing	
Option C:	conical scan	
Option D:	Monopulse	
•		
Q6.	Tracking information is obtained by	

Q14.	Which one of the following can be used for the amplification of microwave energy			
Option A:	traveling-wave tube			
Option B:	Magnetron			
Option C:	Reflex Klystron			
Option D:	Gunn diode			
Орион Б.	Guini diode			
Q15.	Cross-field amplifier (CFA) is vary close associate of			
Option A:	Magnetron			
Option B:	Helix Trawelling wave tube			
Option C:	Multicavity Klystron			
Option D:	Coupled cavity TWT			
016				
Q16.	Which of the following is solid state device			
Option A:	Magnetron			
Option B:	Travelling wave Tube			
Option C:	Klystron			
Option D:	GaAs MOSFET			
Q17.	One of the following is a crossed field device			
Option A:	Magnetron			
Option B:	Travelling wave Tube			
Option C:	Two cavity klystron			
Option D:	Reflex klystron			
Q18.	Magnetrons are commonly used as radar transmitters because			
Option A:	it is easily cooled			
Option B:	it is light			
Option C:	it is a handy device			
Option D:	high power can be generated and transmitted to aerial directly from oscillator			
Q19.	is a single cavity klystron tube that operates as on oscillator by using a reflector electrode after the cavity.			
Option A:	Backward wave oscillator			
Option B:	Reflex klystron			
Option C:	Travelling wave Tube			
Option D:	Magnetron			
Q20.	Which radarscope plots target echo amplitude versus range on rectangular coordinates for some fixed direction? It is also used primarily for tracking radar applications than for surveillance radars.			
Option A:	PPI Scope			
Option B:	B scope			
Option C:	A scope			
Option D:	F-scope			
Q21.	The PPI scan-type indicator can indicate			

Option A:	range of the target only		
Option B:	direction of the target only		
Option C:	Both range and direction of the target		
Option D:	Range, speed, and direction		
Q22.	The intensity modulated map like circular display that gives target location in		
	polar coordinates		
Option A:	F-scope		
Option B:	A-scope		
Option C:	B-scope		
Option D:	PPI		
Q23.	In a radar receiver the IF amplifier is usually		
Option A:	broadband to permit the use of wide pulses		
Option B:	broadband to permit the use of fairly narrow pulses		
Option C:	narrowband in order to use narrow pulses		
Option D:	narrowband in order to use wider pulses		
Q24.	Noise figure for a receiver is defined as the ratio of		
Option A:	(S/N) ratio at the input to (S/N)ratio at the output		
Option B:	(S/N) ratio at the output to (S/N)ratio at the Input		
Option C:	S/N ratio at the input		
Option D:	S/N ratio at the output		
Q25.	The conversion loss of a mixer is defined as		
Option A:	Ratio of available RF power to available IF power		
Option B:	Ratio of available IF power to available RF power		
Option C:	Product of available RF and IF power		
Option D:	sum of available RF anf IF power		

Program: BE Electronics and Telecommunication Engineering

Curriculum Scheme: Revised 2016

Examination: Third Year Semester VI

Course Code and Course Name: ECCDLO6022 and Radar Engineering

Time: 1 hour Max. Marks: 50

Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D'
Q1.	В
Q2.	В
Q3.	В
Q4	С
Q5	D
Q6	В
Q7	Α
Q8.	В
Q9.	Α
Q10.	Α
Q11.	Α
Q12.	D
Q13.	В
Q14.	Α
Q15.	А
Q16.	D

Q17.	А
Q18.	D
Q19.	В
Q20.	С
Q21.	С
Q22.	D
Q23.	Α
Q24.	A
Q25.	А

Program: Electronics and Telecommunication Engineering

Curriculum Scheme: Rev 2016 Examination: Third Year Semester VI

Course Code: ECCDLO 6023 and Course Name: Database Management System
Time: 1 hour Max. Marks: 50

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

Q1.	The database environment has all of the following components except:			
Option A:	Users			
Option B:	Separate files			
Option C:	Database			
Option D:	Database Administrator			
Q2.	Data independence means			
Option A:	Data is defined separately and not included in programs			
Option B:	Data and programs are maintained in separate files			
Option C:	Is the capacity to change the schema at one level of a database system without			
	having to change the schema at the next higher level			
Option D:	Data is defined separately and included in programs			
Q3.	A relational database developers refers to a record as			
Option A:	A criteria			
Option B:	A relation			
Option C:	A tuple			
Option D:	An attribute			
Q4.	Key to represent relations between tables is called			
Option A:	Super key			
Option B:	Foreign key			
Option C:	Primary key			
Option D:	Secondary key			
Q5.	A logical schema			
Option A:	is the entire database			
Option B:	is the standard way of organizing information into accessible parts			
Option C:	Describes how data is actually stored on disk.			
Option D:	Is the Entire Data base as well as the standard way of organizing information into			
	accessible parts.			
Q6.	E-R model uses this symbol to represent weak entity set?			
Option A:	Dotted rectangle			
Option B:	Diamond			
Option C:	Doubly outlined rectangle			
Option D:	Dotted square			
Q7.	A key that consists of more than one attribute to uniquely identify rows in a table			
	is called			

Option A:	Composite key
Option B:	Candidate Key
Option C:	Primary key
Option C.	Filliary Rey
Option D:	Foreign key
Option D.	1 oreign key
Q8.	Relational Algebra is
Option A:	Data Definition Language
Option B:	Meta Language
Option C:	Procedural query Language
Option D:	High level Language
option B.	Thigh level Euriguage
Q9.	refers to the correctness and completeness of the data in a
Q 3.	database
Option A:	Data security
Option B:	Data integrity
Option C:	Data constraint
Option D:	Data independence
1 -	
Q10.	Every attribute has some predefined value scope that is called
Option A:	Tuple
Option B:	Tables
Option C:	Attribute domain
Option D:	Relation schema
011	1 4 4 2 4 4 . 4 . 4 . 0 4 . 0 4 4 4 4 4
Q11.	produces the relation that has attributes of R1 and R2.
Option A:	Cartesian product
	L
Option A: Option B: Option C:	Cartesian product
Option A: Option B:	Cartesian product Difference
Option A: Option B: Option C: Option D:	Cartesian product Difference Intersection Product
Option A: Option B: Option C: Option D: Q12.	Cartesian product Difference Intersection Product Which is not advantage of concurrent execution
Option A: Option B: Option C: Option D: Q12. Option A:	Cartesian product Difference Intersection Product Which is not advantage of concurrent execution Improved throughput
Option A: Option B: Option C: Option D: Q12. Option A: Option B:	Cartesian product Difference Intersection Product Which is not advantage of concurrent execution Improved throughput Reduced waiting time
Option A: Option B: Option C: Option D: Q12. Option A: Option B: Option C:	Cartesian product Difference Intersection Product Which is not advantage of concurrent execution Improved throughput Reduced waiting time Less storage space required
Option A: Option B: Option C: Option D: Q12. Option A: Option B:	Cartesian product Difference Intersection Product Which is not advantage of concurrent execution Improved throughput Reduced waiting time
Option A: Option B: Option C: Option D: Q12. Option A: Option B: Option C: Option C: Option D:	Cartesian product Difference Intersection Product Which is not advantage of concurrent execution Improved throughput Reduced waiting time Less storage space required Resource utilization
Option A: Option B: Option C: Option D: Q12. Option A: Option B: Option C: Option D:	Cartesian product Difference Intersection Product Which is not advantage of concurrent execution Improved throughput Reduced waiting time Less storage space required Resource utilization A transaction completes its execution is said to be
Option A: Option B: Option C: Option D: Q12. Option A: Option B: Option C: Option D: Q13. Option A:	Cartesian product Difference Intersection Product Which is not advantage of concurrent execution Improved throughput Reduced waiting time Less storage space required Resource utilization A transaction completes its execution is said to be Saved
Option A: Option B: Option C: Option D: Q12. Option A: Option B: Option C: Option D: Q13. Option A: Option A: Option A:	Cartesian product Difference Intersection Product Which is not advantage of concurrent execution Improved throughput Reduced waiting time Less storage space required Resource utilization A transaction completes its execution is said to be Saved Loaded
Option A: Option B: Option C: Option D: Q12. Option A: Option B: Option C: Option D: Q13. Option A: Option A: Option A: Option C: Option C: Option C:	Cartesian product Difference Intersection Product Which is not advantage of concurrent execution Improved throughput Reduced waiting time Less storage space required Resource utilization A transaction completes its execution is said to be Saved Loaded Rolled
Option A: Option B: Option C: Option D: Q12. Option A: Option B: Option C: Option D: Q13. Option A: Option A: Option A:	Cartesian product Difference Intersection Product Which is not advantage of concurrent execution Improved throughput Reduced waiting time Less storage space required Resource utilization A transaction completes its execution is said to be Saved Loaded
Option A: Option B: Option C: Option D: Q12. Option A: Option B: Option C: Option D: Q13. Option A: Option B: Option C: Option C: Option D:	Cartesian product Difference Intersection Product Which is not advantage of concurrent execution Improved throughput Reduced waiting time Less storage space required Resource utilization A transaction completes its execution is said to be Saved Loaded Rolled Committed
Option A: Option B: Option C: Option D: Q12. Option A: Option B: Option C: Option D: Q13. Option A: Option B: Option C: Option D: Q14.	Cartesian product Difference Intersection Product Which is not advantage of concurrent execution Improved throughput Reduced waiting time Less storage space required Resource utilization A transaction completes its execution is said to be Saved Loaded Rolled Committed Which of the following is not an Aggregate function?
Option A: Option B: Option C: Option D: Q12. Option A: Option B: Option C: Option D: Q13. Option A: Option B: Option C: Option D: Q14. Option A:	Cartesian product Difference Intersection Product Which is not advantage of concurrent execution Improved throughput Reduced waiting time Less storage space required Resource utilization A transaction completes its execution is said to be Saved Loaded Rolled Committed Which of the following is not an Aggregate function? Min
Option A: Option B: Option C: Option D: Q12. Option A: Option B: Option C: Option D: Q13. Option A: Option B: Option C: Option C: Option C: Option C: Option D:	Cartesian product Difference Intersection Product Which is not advantage of concurrent execution Improved throughput Reduced waiting time Less storage space required Resource utilization A transaction completes its execution is said to be Saved Loaded Rolled Committed Which of the following is not an Aggregate function? Min Max
Option A: Option B: Option C: Option D: Q12. Option A: Option B: Option C: Option D: Q13. Option A: Option B: Option C: Option D: Q14. Option A:	Cartesian product Difference Intersection Product Which is not advantage of concurrent execution Improved throughput Reduced waiting time Less storage space required Resource utilization A transaction completes its execution is said to be Saved Loaded Rolled Committed Which of the following is not an Aggregate function? Min

	T
Q15.	A type of query that is placed within a WHERE or HAVING clause of another query called
Option A:	Super query
Option B:	Sub query
Option C:	Master query
Option D:	Multi-query
opiion 2.	
Q16.	What is ACID properties of Trasactions?
Option A:	Atomicity, Consistency, Isolation, Database
Option B:	Atomicity, Consistency, Isolation, Durability
Option C:	Atomicity, Consistency, Inconsistent, Durability
Option D:	Automatically, Consistency, Isolation, Durability
Q17.	The attribute that can be divided into other attributes is called
Option A:	Simple Attribute
Option B:	Composite Attribute
Option C:	Multi-valued Attribute
Option D:	Derived Attribute
010	
Q18.	Count function in SQL returns the number of
Option A:	Values
Option B:	Columns
Option C:	Groups
Option D:	Distinct values
Q19.	A relation that has o partial dependencies is in which normal form
Option A:	First
Option B:	Second
Option C:	Third
Option D:	BCNF
Option D.	DCM
Q20.	In SQL, which of the following is not a data manipulation Language commands?
Option A:	DELETE
Option B:	SELECT
Option C:	UPDATE
Option D:	CREATE
Q21.	A data manipulation command that combines the records from one or more tables
	is called
Option A:	SELECT
Option B:	PROJECT
Option C:	JOIN
Option D:	PRODUCT
Q22.	Consider the following schema
	Employee(Eno, Ename, deptNo)
	Department(deptNo, deptName)

	Find the correct query to find the name of the employees working in the research					
	department					
Option A:	Select Ename from Employee, Department where					
	Employee.deptNo=Departmet.deptNo and deptName='Research'					
Option B:	Select Ename from Employee where Department.deptName='Research'					
Option C:	Select Ename from Employee where deptName='Research'					
Option D:	Select Ename from Employee where deptName='Acedemic'					
	1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
Q23.	Employee(person name, street, city)					
	Works(person name, company name, salary)					
	Company(company_name, city)					
	Manages(person_name, manager_name)					
	Consider the relational database given above where primary key is in bold letters.					
	Give an expression in the relational algebra to express each of the following					
	queries:					
	1. Find the names of the employees who work for First Bank Corporation.					
Option A:	$\Pi_{\mathit{person_name}}(\sigma_{\mathit{comapny_name}="FirstBankCorporation"}(\mathit{works}))$					
Option B:	$\sigma_{\mathit{person_name}}(\Pi_{\mathit{comapny_name}="FirstBankCorporation"}(\mathit{works}))$					
Option C:	$(\sigma_{comapny_name="FirstBankCorporation"}(works))$					
Option D:	$\Pi_{comapny_name="FirstBankCorporation"}(works)$					
Q24.	Given the SQL expression for the same query asked in question 23.					
Option A:	Select employee_name from works for company_name="First Bank Corporation"					
Option B:	Select employee_name from works					
Option C:	Select employee_name where company_name="First Bank Corporation"					
Option D:						
	From works					
	Where company name="First Bank Corporation"					
Q25.	An attribute of a table can not hold multiple values is the property of					
Option A:	First Normal form (1NF)					
Option B:	Second normal form (2NF)					
Option C:	Third normal form(3NF)					
Option D:	Fourth normal form (4NF)					
- r · · · ·						

Program: Electronics and Telecommunication Engineering

Curriculum Scheme: Rev2016 Examination: Third Year Semester VI

Course Code: ECCDLO6023 and Course Name: Database Management Systems
Time: 1 hour Max. Marks: 50

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

Department: Electronics & Telecommunication

Syllabus: CBCGS

Semester: Sem-VI

Subject Name: Database Management Systems

Subject Code: ECCDLO6023

Date of Exam: 12-12-20

The revised question is as below

(Note: the question and the correct answer both has to be mentioned)

Q18.	Count function in SQL returns the number of
Option	Values
A:	
Option	Columns
B:	
Option	Groups
C:	
Option	Distinct values
D:	

Ans: a

Q19.	A relation that has no partial dependencies is in which normal form
Option	First
A:	
Option	Second
B:	
Option	Third
Option C:	
Option	BCNF
D:	

Ans: b

Program: Electronics and Telecommunication Engineering

Curriculum Scheme: Rev2016 Examination: ThirdYear SemesterVI

Course Code: ECCDLO6024 and Course Name: Audio Processing

Time: 1hour Max. Marks: 50

For the students: All the Questions are compulsory and carry equal marks.

Q1. Very long duration windows correspond to Option A: wideband low pass filters Option B: narrowband low pass filters Option D: wideband high pass filters Q2. A system is said to be stable if the bounded input to the system produce Option A: Non-bounded output Option B: Inbound output Option D: Outbound Output Q3. Vocal tract model is a system Option A: All zero Option B: All pole Option C: Pole-zero Option D: Pole-pole
Option B: narrowband low pass filters Option C: wideband high pass filters Option D: narrowband high pass filters Q2. A system is said to be stable if the bounded input to the system produce Option A: Non-bounded output Option B: Inbound output Option C: Bounded Output Option D: Outbound Output Q3. Vocal tract model is a system Option A: All zero Option B: All pole Option C: Pole-zero
Option C: wideband high pass filters Option D: narrowband high pass filters Q2. A system is said to be stable if the bounded input to the system produce Option A: Non-bounded output Option B: Inbound output Option C: Bounded Output Option D: Outbound Output Q3. Vocal tract model is a system Option A: All zero Option B: All pole Option C: Pole-zero
Option D: narrowband high pass filters Q2. A system is said to be stable if the bounded input to the system produce Option A: Non-bounded output Option B: Inbound output Option C: Bounded Output Option D: Outbound Output Q3. Vocal tract model is a system Option A: All zero Option B: All pole Option C: Pole-zero
Q2. A system is said to be stable if the bounded input to the system produce Option A: Non-bounded output Option B: Inbound output Option C: Bounded Output Option D: Outbound Output Q3. Vocal tract model is a system Option A: All zero Option B: All pole Option C: Pole-zero
Option A: Non-bounded output Option B: Inbound output Option C: Bounded Output Option D: Outbound Output Q3. Vocal tract model is a system Option A: All zero Option B: All pole Option C: Pole-zero
Option A: Non-bounded output Option B: Inbound output Option C: Bounded Output Option D: Outbound Output Q3. Vocal tract model is a system Option A: All zero Option B: All pole Option C: Pole-zero
Option B: Inbound output Option C: Bounded Output Option D: Outbound Output Q3. Vocal tract model is asystem Option A: All zero Option B: All pole Option C: Pole-zero
Option C: Bounded Output Option D: Outbound Output Q3. Vocal tract model is a system Option A: All zero Option B: All pole Option C: Pole-zero
Option D: Outbound Output Q3. Vocal tract model is asystem Option A: All zero Option B: All pole Option C: Pole-zero
Q3. Vocal tract model is asystem Option A: All zero Option B: All pole Option C: Pole-zero
Option A: All zero Option B: All pole Option C: Pole-zero
Option A: All zero Option B: All pole Option C: Pole-zero
Option B: All pole Option C: Pole-zero
Option C: Pole-zero
Option D: Pole-pole
Q4. In discrete time model of speech production the voiced sounds are synthesized as
Option A: Train of pulses
Option B: Random noise generators
Option C: Train of periodic pulses
Option D: Sine wave generators
Q5. The sampled frequency less than the Nyquist rate is called
Option A: under sampling
Option B: over sampling
Option C: critical sampling
Option D: Nyquist sampling
Q6. Difference signal $x(n)-x(n-1)$ is quantized in:
Option A: Differential coding
Option B: Uniform quantizing
Option C: Instantaneous companding
Option D: Step processing
Q7. Most energy in voiced speech is at frequency.
Option A: Low
Option B: High

	Examination 2020		
Option C:	High and very high		
Option D:	Low and high		
Q8.	The fundamental frequency of the vocal fold vibrations during voiced sounds is		
	called		
Option A:	Resonants		
Option B:	Variants		
Option C:	Formants		
Option D:	Pitch		
Q9.	The process of converting the analog sample into discrete form is called		
Option A:	Quantization		
Option B:	Modulation		
Option C:	Multiplexing		
Option D:	Sampling		
Q10.	The resonant frequencies of Vocal tract tube are called		
Option A:	Variants		
Option B:	Fundamental tones		
Option C:	Formants		
Option D:	Pitch		
Q11.	Short time energy serves to differentiate		
Option A:	Voiced and unvoiced sounds		
Option B:	Vowels and semi vowels		
Option C:	Diphthongs and stops		
Option D:	Nasals and Fricatives		
•			
Q12.	Voiced sounds are .		
Option A:	Noisy		
Option B:	Loud		
Option C:	Periodic		
Option D:	Aperiodic		
	•		
Q13.	The is a function of time and frequency that indicates how the		
	spectral content of a signal evolves over time.		
Option A:	STFT		
Option B:	DFT		
Option C:	FFT		
Option D:	DTFT		
Q14.	Zero crossing rate is a simple measure of		
Option A:	Frequency content of a signal		
Option B:	Pitch of a signal		
Option C:	Auto correlation		
Option D:	Energy content of a signal		
	<u> </u>		
Q15.	The basic idea of short time Fourier transform is to break up the signal into small		
4.5.	The same of the sa		

	segments and Fourier analyze each segment to ascertain the frequencies that		
O 1: A	existed in that segment.		
Option A:	time		
Option B:	frequency		
Option C:	finer		
Option D:	average		
Q16.	The smallest perceptual unit of speech is		
Option A:	Phoneme		
Option B:	Syllable		
Option C:	Consonant		
Option D:	Plosive		
Q17.	The short time Fourier transform is the most widely used method for studying		
	signals.		
Option A:	stationary		
Option B:	non-stationary		
Option C:	periodic		
Option D:	non-periodic		
Q18.	Neural Networks are interconnections of processing elements are known as		
Option A:	Weights		
Option B:	Neurons		
Option C:	Axons		
Option D:	soma		
•			
Q19.	Spectrum flatteners are used to		
Option A:	widen the spectrum		
Option B:	remove the effects of the vocal tract transfer function		
Option C:	flatten the spectrum		
Option D:	for center clipping		
Q20.	Short duration signals have inherently bandwidths.		
Option A:	Small		
Option B:	Large		
Option C:	Medium		
Option D:	Very small		
орион В.	VOLY SINGI		
Q21.	Analysis of speech signal in vocoders is done at the		
Option A:	Receiver		
Option B:	Amplifier		
Option C:	Transmitter		
Option D:	Channel		
Ծրոսու D.	Chamici		
022	The disadvantage of Fourier Transforms (FT, DTFT, DFT) is that they do not		
Q22.	clearly indicate how the of a signal changes with time.		
Option A:			
Option B:	frequency		
орион в:	amplitude		

Ontion C.	anim		
Option C:	gain		
Option D:	energy		
Q23.	Software tool that matches speech uttered by user with a vocabulary of sp		
	signal stored in a computer is		
Option A:	Speech analyser		
Option B:	Speech enhancer		
Option C:	Speech Recognition		
Option D:	Speech synthesizer		
Q24.	The type of you use affects the time-frequency resolution of the STFT.		
Option A:	Scale		
Option B:	Pitch		
Option C:	Window		
Option D:	recorder		
Q25.	If the zero-crossing rate is high, the speech signal is generally		
Option A:	voiced		
Option B:	unvoiced		
Option C:	depends on the speaker		
Option D:	silence		

Program: Electronics and Telecommunication Engineering

Curriculum Scheme: Rev2016 Examination: Third Year SemesterVI

Course Code: ECCDLO6024 and Course Name: Audio Processing

Time: 1 hour Max. Marks: 50

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