Examinations Commencing from 1st June 2021

Program: Electronics and Telecommunications Engineering Curriculum Scheme: Rev2016

Examination: BE Semester VIII

Course Code: ECC 801 and Course Name: RF Design

Time: 2 hour Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	An ideal filter would have in the passband, in the stopband, and in the passband.
Ontion A:	· · · · - · - · · · · · · · · · · · ·
Option A:	infinite attenuation, zero insertion loss, a linear phase response
Option B:	zero insertion loss, infinite attenuation, a non-linear phase response
Option C:	finite attenuation, zero insertion loss, a non-linear phase response
Option D:	zero insertion loss, infinite attenuation, a linear phase response
2.	Find the value of center of noise figure circle, if noise parameter N = 0.0986 and optimum reflection coefficient is 0.62 100°
Option A:	0.56 (-100°)
Option B:	0.85 100°
Option C:	0.56 100°
Option D:	0.85 (-100°)
3.	In Indirect frequency synthesizer, the output frequency f0 is equal to
Option A:	fr/N (fr is reference frequency)
Option B:	Nfr (fr is reference frequency)
Option C:	fr + N (fr is reference frequency)
Option D:	fr - N (fr is reference frequency)
4.	The RF-LO isolation is excellent in
Option A:	Image reject mixer
Option B:	single ended mixer
Option C:	Double balanced mixer
Option D:	balanced (90°) mixer
5.	The mechanism that enables electromagnetic energy to be created in an
	electronic device and coupled to its AC power cord is known as
Option A:	Radiated Emission (RE)
Option B:	Conducted Emission (CE)
Option C:	Radiated Susceptibility (RS)
Option D:	Conducted Susceptibility (CS)
6.	In a FET design, for value of S11 = 0.75 -120°, find the value of maximum source

	gain Gsmax in dB.	
Option A:	3dB	
Option B:	2.92dB	
Option C:	4.4dB	
Option D:	3.6dB	
Option D.	3.000	
7.	The value of inductor for π section constant K low pass filter with cut off	
, .	frequency 3000Hz and nominal characteristic impedance R0 of 600Ω is equal to:	
Option A:	31.84mH	
Option B:	12.6mH	
Option C:	63.68mH	
Option D:	30.6mH	
o passa a v		
8.	For a one port negative resistance oscillator for steady state oscillation, which of	
	the following is TRUE?	
Option A:	ΓL*Γin=1	
Option B:	ΓL/Γin=1	
Option C:	ΓL+Γin=1	
Option D:	ΓL-Γin=1	
1		
9.	Under which condition the Transistor is unconditionally Stable?	
Option A:	K > 1, Δ > 1	
Option B:	K < 1, Δ > 1	
Option C:	K < 1, Δ < 1	
Option D:	K > 1, Δ < 1	
10.	The process of filter design by the insertion loss method is given by	
Option A:	Filter Specifications $ o$ Scaling and Conversion $ o$ LP Prototype Design $ o$	
	Implementation	
Option B:	Filter Specifications $ o$ HP Prototype Design $ o$ Scaling and Conversion $ o$	
	Implementation	
Option C:	Filter Specifications \rightarrow BP Prototype Design \rightarrow Scaling and Conversion \rightarrow	
Outing Di	Implementation	
Option D:	Filter Specifications → LP Prototype Design → Scaling and Conversion →	
	Implementation	
11.	cannot be used to minimize the EMI.	
Option A:	filtering	
Option B:	shielding	
Option C:	Cable designing	
Option D:	rectifying	
Option D.	rectiying	
12.	In order to avoid leakage of electromagnetic energy through the shield, the	
	outer surface of the shield has to be .	
Option A:	Covered through insulators.	
Option B:	Placed in isolation	
Option C:	Grounded	
Option D:	Kept in open environment	
	<u> </u>	

13.	Burst noise present in semiconductors and ultra-thin gate oxide films is also called as
Option A:	Flicker noise
Option B:	Popcorn noise
Option C:	Shot noise
Option D:	Thermal noise
14.	For a minimum insertion loss, one could use a and for the sharpest
	cutoff use a
Option A:	Chebyshev response, Binomial response
Option B:	Binomial response, Butterworth response
Option C:	Binomial response, Chebyshev response
Option D:	Elliptic response, Butterworth response
15.	A one port oscillator uses a negative resistance diode having
	1.25 40° at 8GHz in Z0=50 ohms system. Then the input impedance of diode in
	ohms will be
Option A:	(-44+j124)
Option B:	50+j100
Option C:	(-48+j145)
Option D:	(-50+j100)
1.6	
16.	In Electrical bonding process the components of an assembly, equipment or
O-4: A.	subsystems are electrically connected by means of what kind of conductor?
Option A:	Low impedance
Option B:	Twisted
Option C: Option D:	High impedance
Орион Д.	Mechanically strong
17.	PLL functions as afor phase noise arising in the reference
	signal and phase detector.
Option A:	High Pass Filter
Option B:	Low Pass Filter
Option C:	Band Pass Filter
Option D:	Band Stop Filter
18.	For a unilateral device condition for unconditional stability in terms of S
	parameters is:
Option A:	S11 <1, S22 <1
Option B:	S11 >1, S22 >1
Option C:	S11 >1, S22 <1
Option D:	S11 <1, S22 >1
19.	A method of frequency synthesis where multiple output frequencies are generated by mixing the outputs from two or more crystal-controlled frequency sources or by dividing or multiplying the output frequency from a single-crystal oscillator.

Option A:	Digital frequency synthesizer
Option B:	General frequency synthesizer
Option C:	Direct Frequency Synthesis
Option D:	Looped frequency synthesizer
20.	A dielectric resonator is modeled as when it is used as a tuning
	circuit with a oscillator.
Option A:	series RLC circuit
Option B:	parallel RLC circuit
Option C:	LC circuit
Option D:	tank circuit

Q2.		
A	Solve any Two 5 marks e	ach
i.	Explain the steps involved in filter designing by Insertion loss method.	
ii.	Discuss the working of fractional N-Frequency Synthesizer.	
iii.	Show that both ports of a two-port negative resistance oscillator oscilla	ate.
В	Solve any One 10 marks ea	ach
i.	Explain the following power amplifier performance parameters:	
	a) Amplifier efficiency and power added efficiency	
	b)1-dB compression point	
	c)1-dB compression gain	
	d)Dynamic range	
	e) Load Pull Contours	
ii.	The S-parameters at 10 GHz for a microwave transistor with a 50 ohms	
	reference impedance are:	
	S11= 0.45 150°,	
	$S12=0.01 -10^{\circ}$	
	S21=2.05 10°	
	S22=0.40 -150°	
	The source impedance is 20 ohms and the load impedance is 30 ohms.	
	Calculate the power gain, the available gain and the transducer power ga	ain.

Q3.		
A	Solve any Two	5 marks each
i.	Why is single point ground system undesirable at hig multipoint ground system overcomes this problem?	gh frequency? How
ii.	Explain the mixer characteristics: Image frequency, C figure of SSB and DSB signal	Conversion loss, noise
iii.	Discuss the types of stability in an Amplifier design	
В	Solve any One	10marks each
i.	Explain:	

	a) Radiation and Conduction Coupling modes. b) Common Mode Coupling Mechanisms.
ii	Design a m-derived T- section of LPF having fc= 5KHz and nominal
11.	characteristic impedance Ro=600 ohms. The frequency of infinite
	attenuation is 1.25 times the cut off frequency fc.

Examinations Commencing from 1st June 2021

Program: Electronics and Telecommunications Engineering

Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: ECC 801 and Course Name: RF Design

Time: 2 hour	Max. Marks: 80

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

Examinations Commencing from 1st June 2021

Program: Electronics and Telecommunication Engineering

Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: ECCDLO8043 and Course Name: Satellite Communication

Time: 2-hour Max. Marks: 80

0806_R16_EXTC_VIII_ECCDLO8043_QP2

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Find the orbital period of the satellite in a circular orbit 500 km above the Earth's surface
Option A:	1.6 hrs
Option B:	3.2 hrs
Option C:	2.4 hrs
Option D:	6.4 hrs
2.	In space qualification, components that have reliability in outer space are selected
Option A:	Low
Option B:	medium
Option C:	high
Option D:	very low
3.	In TVRO, Outdoor unit mainly consists of
Option A:	Transmitting antenna and Low Noise Block (LNB)
Option B:	Television Receiver
Option C:	receiving antenna and Low Noise Block (LNB)
Option D:	IF amplifier
4.	When two networks are connected in series, its composite noise figure can be given
	as
Option A:	F1+(F2-1)/G1
Option B:	F1-(F2-1)/G1
Option C:	F2+(F1-1)/G1
Option D:	F1G1+(F2-1)
5.	SCPC systems are widely used on lightly loaded routes, this type of service being
Ontion A.	referred to as a
Option A:	thin route service.
Option B:	thick route service.
Option C:	busy route service.
Option D:	empty route service.
(What is the ammoviments time taken by the CDC for an account to a dive
6.	What is the approximate time taken by the GPS for one complete orbit?
Option A:	11 minutes

Option C: 5 hours Option D: 12 hours 7. A satellite which simply reflects the signal without further amplification Option A: Passive satellite Option C: Geostationary satellite Option D: Domestic satellite S: The rotation about axis is called pitch in 3-axis stabilization Option A: X Option A: X Option A: Y Option D: W 9. The Tracking system present in the earth station performs mainly two functions as Option A: acquisition and tracking of carth station Option B: acquisition and tracking of the Sun Option B: acquisition and tracking of the Sun Option D: satellite acquisition and tracking of satellite. 10. The range between a ground station and a satellite is 42000 km. Calculate the free space loss a frequency of 6 GHz. Option A: 100 dB Option D: 175dB Option D: 200.4dB 11. The CSC bandwidth is 160 kHz, and its center frequency is below the pilot frequency Option B: 18.045 MHz Option B: 18.045 MHz Option B: 18.045 MHz Option B: 18.045 MHz Option C: 1.8045 MHz Option D: 1.8045 kHz Option C: 50-150KHz Option D: 50-150Hz 13. The angle between the line from the earth station's antenna to the satellite and the line of inclination Option B: Angle of inclination Option B: Angle of inclination Option C: Apogec angle Option C: Angle of azimuth	Option B:	45 minutes
Option D: 7. A satellite which simply reflects the signal without further amplification Option A: Passive satellite Option B: Active satellite Option D: Domestic satellite 8. The rotation about axis is called pitch in 3-axis stabilization Option A: X Option B: Y Option B: Y Option D: W 9. The Tracking system present in the earth station performs mainly two functions as Option A: acquisition and tracking of earth station Option B: acquisition and tracking of the Sun Option C: acquisition and tracking of the Sun Option D: satellite acquisition and tracking of satellite. 10. The range between a ground station and a satellite is 42000 km. Calculate the free space loss a frequency of 6 GHz. Option B: 150 dB Option D: 175dB Option D: 200.4dB 11. The CSC bandwidth is 160 kHz, and its center frequency is below the pilot frequency Option A: 18.045 kHz Option C: 1.8045 kHz Option C: 1.8045 kHz Option C: 1.8045 kHz Option C: 1.8045 kHz Option C: 50-150kHz Option A: 5-15 kHz Option C: 50-150kHz Option C: 50-150kHz The angle between the line from the earth station's antenna to the satellite and the line between the earth station's antenna and the earth's horizon is called as Option A: Angle of inclination Option A: Angle of inclination Option A: Angle of inclination Option B: Angle of elevation Option B: Angle of levation		5 hours
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The range between a ground station and a satellite is 42000 km. Calculate the free space loss a frequency of 6 GHz. Option A: 100 dB Option C: 175dB Option D: 200.4dB 11. The CSC bandwidth is 160 kHz, and its center frequency is below the pilot frequency Option A: 18.045 MHz Option B: 18.045 kHz Option C: 1.8045 MHz Option D: 1.8045 kHz 12. In Satellite Radio sound quality is excellent due to a wide audio bandwidth of Option A: 5–15 MHz Option B: 5–15 kHz Option D: 50-150KHz Option D: 50-150Hz 13. The angle between the line from the earth station's antenna to the satellite and the line between the earth station's antenna and the earth's horizon is called as Option A: Angle of inclination Option B: Angle of elevation Option C: Apogee angle		
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Option A: 100 dB Option B: 150 dB Option C: 175dB Option D: 200.4dB 11. The CSC bandwidth is 160 kHz, and its center frequency is below the pilot frequency Option A: 18.045 MHz Option B: 18.045 kHz Option C: 1.8045 MHz Option D: 1.8045 kHz 12. In Satellite Radio sound quality is excellent due to a wide audio bandwidth of	10.	
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Option A: Angle of inclination Option B: Angle of elevation Option C: Apogee angle	1	
Option A: Angle of inclination Option B: Angle of elevation Option C: Apogee angle	13.	The angle between the line from the earth station's antenna to the satellite and the
Option A: Angle of inclination Option B: Angle of elevation Option C: Apogee angle		
Option B: Angle of elevation Option C: Apogee angle	Option A:	
Option C: Apogee angle		
1 100		
	Option D:	Angle of azimuth

14.	Double conversion transponder is used forband
Option A:	K
Option B:	Ku
Option C:	S
Option D:	C
Орион В.	
15.	A master antenna TV (MATV) system is used to provide reception of
13.	to a small group of users.
Option A:	Conventional TV/AM channels
Option B:	DBS TV/AM channels
Option C:	DBS TV/FM channels
Option D:	Conventional TV/FM channels
1.6	
16.	The traffic-handling capacity of an Earth station on the uplink depends on
Option A:	its EIRP
Option B:	its antenna gain
Option C:	noise associated with the Earth Station
Option D:	received power at satellite
17.	A frame format of TDMA system includes.
Option A:	reference burst, preamble and traffic data.
Option B:	reference burst, guard time, preamble and traffic data.
Option C:	guard time, preamble and traffic data.
Option D:	reference burst, guard time and preamble.
1	
18.	Bandwidth used in LASER satellite communication is RF bandwidth
Option A:	Larger than
Option B:	Equal to
Option C:	Smaller than
Option D:	depends on
орион В.	depends on
19.	Which of the following term is used to describe the microwave radiation which is
15.	present throughout universe and appears to originate from matter in any form at a
	finite temperature?
Option A:	Noise factor
Option B:	Antenna loss
Option C:	Sky noise
Option C:	Noise power spectral density
<i>-</i> Ծրոսու <i>D</i> .	inoise power spectral delisity
20.	What is the number of transponders if the setallite was 12 shounds of fragrence
۷٠.	What is the number of transponders if the satellite uses 12 channels of frequency
Om4: A	and frequency reuse is implemented?
Option A:	12
Option B:	6
Option C:	24
Option D:	3

Q2	Solve any Four out of Six 5 marks each
A	Explain design consideration of Earth station.
В	Define and explain reliability in satellite
С	Explain why 14/12 GHz band is used for DTH application, what are the advantages and disadvantages of this band?
D	Define and explain what is meant by frame efficiency in relation to TDMA operation
Е	Explain Kepler's laws.
F	How does back off power affect satellite link performance.

Q3.	Solve any Two Questions out of Three 10 marks each
A	Explain the various stages in launching of a geostationary satellite into final circular orbit with zero inclination by ELV.
В	Explain in detail the operation of the SPADE system of demand assignment. What is the function of common signaling channels?
С	A receiver for geostationary satellite transmission at 2.2GHz has an equivalent noise temperature of 160 K and a bandwidth of 1MHz. The receiver antenna has a gain of 30dB, and the antenna noise temperature is 190dB. What is the minimum required satellite transmitter power to achieve a 20dB CNR at the output of the receiver?

Examinations Commencing from 1st June 2021

Program: Electronics and Telecommunication Engineering

Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: ECCDLO8043 and Course Name: Satellite Communication

Time: 2-hour Max. Marks: 80

$0806_R16_EXTC_VIII_ECCDLO8043_AK2$

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

Examinations Commencing from 1st June 2021

Program: BE (Electronics and Telecommunication Engineering) (CBCGS)

Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: ECC 802 and Course Name: Wireless Networks

Time: 2 hours Max. Marks: 80

Q1	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1	The full form of SPIN is
_	Sensor Protocol for Information via Negotiation
Option A:	Secrete Protocol for Information via Negotiation
Option B:	
Option C:	Simple Protocol for Information via Negotiations
Option D:	Sensor point for Information via Negotiations
2.	Inductive Coupling is used in the
Option A:	Physical Layer
Option B:	Network Layer
Option C:	MAC Layer
Option D:	Date Link Layer
Орион Б.	Date Link Layer
3.	An EMG sensor is for monitoring the activity of
Option A:	Brain
Option B:	Muscles
Option C:	Respiration
Option D:	Heart
1	
4.	The full form of MAC is
Option A:	Multiple Alternative Control
Option B:	Medium Access Configuration
Option C:	Medium Access Control
Option D:	Medium Alternative Control
5.	The Access method of IEEE 802.15 is
Option A:	DSS-TDD-TDMA
Option B:	FHSS-FDD-FDMA
Option C:	FHSS-TDD-TDMA
Option D:	DSSS-FDD-FDMA
	WILL CALCIL CONTROL
6.	Which of the following is not a type of RFID tag
Option A:	Active Tag
Option B:	Passive Tag
Option C:	Semi active Tag
Option D:	Additive passive Tag
7.	Which of the following is related to Ultra Wideband

O., 4: A .	IEEE 000 15 2-	
Option A:	IEEE 802.15.3a	
Option B:	IEEE 802.15.3b	
Option C:	IEEE 802.15.3c	
Option D:	IEEE 802.15.3d	
0		
8.	The full form of FEC is	
Option A:	Frequent Error Correction	
Option B:	Forward Error Correction	
Option C:	Frequent Error Comparison	
Option D:	Forward Error Comparison	
0	IEEE 802.11b has a maximum data rate Mbps	
9. Option A:	IEEE 802.11b has a maximum data rateMbps	
Option B:	54	
1	11	
Option C: Option D:	27	
Option D.		
10.	Which multiple access technique is used by IEEE 802.11 standard for random	
10.	access?	
Option A:	CSMA/CA	
Option B:	FDMA	
Option C:	TDMA	
Option D:	WCDMA	
1		
11.	If Interference Margin is 3dB, what will be the cell loading of CDMA?	
Option A:	0.5	
Option B:	0.6	
Option C:	0.7	
Option D:	1	
12.	WMAN'S span upto	
Option A:	200 Kms	
Option B:	150 Kms	
Option C:	50 Kms	
Option D:	100 Kms	
13.	IEEE 802.16.1 standard is	
Option A:	Air interface for 10-66 GHz	
Option B:	Coexistence of broadband wireless access systems	
Option C:	Air interface for licensed frequencies for 2-11 GHz	
Option D:	Air interface above 66 GHz	
14.	In MAC PDU format MSB comprises of	
Option A:	Genetic payload header	
Option B:	Genetic MAC header	
Option C:	Payload Payload	
Option C:	CRC	
Option D.		
15.	Which of the following does not belong to the Reservation mechanism of	
15.	contention based MAC protocol	
	Tomorion outside the protection	

Option A:	CSMA/CA
Option B:	IEEE 802.11
Option C:	MACA
Option D:	CSMA
16.	Which of the following is not a Hierarchical routing protocol
Option A:	DSR
Option B:	HSR
Option C:	CGSR
Option D:	ZRP
17.	Which of the following is not a characteristic of Ad-hoc networks
Option A:	Multihop
Option B:	Rapid deployment
Option C:	Fixed infrastructure
Option D:	Sporadic connectivity
18.	Flooding is
Option A:	Reactive technique
Option B:	Duplicated messages that can be avoided
Option C:	Redundant routing
Option D:	Proactive technique
19.	What will be the maximum number of subscribers, at initial installation, if present
	number of subscribers in the zone is 50,000 and subscriber growth 5% per year.
	Initial installation is based on a four year design.
Option A:	50,500
Option B:	52,500
Option C:	60,655
Option D:	60,775
20.	LEACH protocol is used for
Option A:	Unlimited bandwidth
Option B:	minimizes energy dissipation
Option C:	Maximum packet delivery
Option D:	Low jitter

Q2.	Solve any Two Questions out of Three 10 marks each
A	Explain Bluetooth security features and security levels with proper diagram
В	Explain Link budget analysis requirement of wireless network
С	Describe the model of Wireless Sensor Network. What are the factors influencing design of Wireless Sensor Network

Q3.		
A	Solve any Two Write a short note on	5 marks each
i.	ZigBee	
ii.	VANETS	

iii.	M2M communication
В	Solve any One 10 marks each
i.	What is localization of WSN nodes? Explain with examples centralized and distributed schemes in localization
ii.	Write a short note on IEEE 802.16

Examinations Commencing from 1st June 2021

Program: BE (Electronics and Telecommunication Engineering) (CBCGS)

Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: ECC 802 and Course Name: Wireless Networks

Time: 2 hours Max. Marks: 80

Question Number	Correct Option
Q1.	A
Q2.	A
Q3.	В
Q4	C
Q5	C
Q6	D
Q7	A
Q8.	В
Q9.	C
Q10.	A
Q11.	A
Q12.	C
Q13.	A
Q14.	В
Q15.	D
Q16.	A
Q17.	С
Q18.	A
Q19.	D
Q20.	В

Examinations Commencing from 1st June 2021

Program: Electronics & Telecommunication Engineering Curriculum Scheme: Rev2016

Examination: BE Semester VIII

Course Code: ECCDLO8044 and Course Name: Network Management in Telecommunication
Time: 2 hour Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks	
1.	Establishment of administrator goals, policies and procedure of network	
1.	management comes under	
Option A:	Operations group	
Option B:	Provisioning group	
Option C:	Maintenance group	
Option D:	Administration group	
2.	Which of the following elements of managing your network does not require most of your time?	
Option A:	Network management configuration	
Option B:	Expansion of network	
Option C:	Troubleshooting network	
Option D:	Gathering and analyzing statistics for upper management review to conduct business	
3.	Which one of the following is not the challenge for IT managers?	
Option A:	Managing complex network systems	
Option B:	Managing converged networks	
Option C:	Management of single and simple network system	
Option D:	Management of information	
4.	In EMS, S stands for	
Option A:	Standard	
Option B:	Security	
Option C:	System	
Option D:	Selection	
5.	In B-ISDN Maintenance VC and VP means:	
Option A:	Virtual Communication and Virtual Path	
Option B:	Virtual Channel and Virtual Path	
Option C:	Virtual Communication and Virtual Procedure	
Option D:	Virtual Channel and Virtual Procedure	
6.	OSI network Model includes	
Option A:	Information Model	
Option B:	Community Model	
Option C:	Connection Model	

Option D:	Distribution Model
7.	From where to where is Catheguest DDU gent so that the value of variable or set
/.	From where to where is GetRequest PDU sent so that the value of variable or set of variables is retrieved?
Option A:	client; server
Option B:	server; client
Option C:	server; network
Option D:	client;network
Орион В.	Cheff, hetwork
8.	The two well -known ports of UDP where the services of UDP can be used by SNMP are and
Option A:	161; 162
Option B:	160; 161
Option C:	160; 162
Option D:	161; 161
1	
9.	In case of MIB object identifier, which amongst the following could be closely
	associated
Option A:	1.3.6.1.2.1.1
Option B:	1.3.6.1.2.2.1
Option C:	2.3.6.1.2.1.2
Option D:	2.3.6.1.2.2.1
1	
10.	What Kind of messages are sent by SNMP agent?
Option A:	GetRequest
Option B:	SetRequest
Option C:	Trap
Option D:	Set-Reset
11.	Desktop Management Task force has chosen
Option A:	Microsoft structure oriented
Option B:	Microsoft client oriented
Option C:	Microsoft agent oriented
Option D:	Microsoft object oriented
12.	In small-scale fading, there is
Option A:	Slow rate of change
Option B:	Rapid rate of change
Option C:	Fixed rate of change
Option D:	None of the above
13.	The main difference between the TMN and eTOM approaches is that
Option A:	the former has been developed using bottom up while eTOM is a top-down approach
Option B:	the former has been developed using a top-down approach while eTOM is a bottom up approach
Option C:	the former has been developed using layered hierarchical fashion while the latter is not
Option D:	the former has been developed using flat centralized paradigm while the latter is hierarchical

14.	At the highest level of integrated architecture of TMN are the functions associated	
Ontion A.	with	
Option A:	Network management	
Option B:	Service Management	
Option C:	Business Management	
Option D:	System Management	
1.5	How many different actaonics of amiliations are progent in TNM?	
15.	How many different categories of applications are present in TNM? Six	
Option A:	Three	
Option B:		
Option C:	Four	
Option D:	Five	
16.	"Saine" the network status monitoring tool belong to	
	"ping", the network status monitoring tool, helps to	
Option A:	Obtain and configures networking interface parameters and status	
Option B:	Checks the status of node/host	
Option C:	Looks up DNS for name-IP address translation	
Option D:	Queries DNS server (supersedes nslookup)	
1.7		
17.	Which one of the following network status monitoring tool helps to obtain and	
configures networking interface parameters and status?		
Option A:	Ping	
Option B:	Ipconfig	
Option C:	Nslookup	
Option D:	Dig	
1.0		
18.	In Virtual Circuit concept the switches are, in contrast to packet	
0 1: 1	switching.	
Option A:	cell-based, frame-based	
Option B:	frame-based, cell-based	
Option C:	packet-based, frame-based	
Option D:	frame-based, packet-based	
10		
19.	There are types of information technology services, namely	
Option A:	three; voice, video, and data	
Option B:		
Option C:	two; video, and data	
Option C:	two; voice, and data two; voice, and video	
Орион D.	two, voice, and video	
20.	An ATM interface management entity (IME) module has three versions namely	
Option A:	user, network, and system	
-		
Option B:	network element, network, and system	
Option C:	link, network, and system	
Option D:	switch, network, and system	

Q2.	Solve any Four out of Six (5 marks each)
(20 Marks)	
A	Why do you need a network management system?
D	Compare the Internet and OSI specifications for the Object as Packet
В	Counter.
C	Explain the role of Managers and Agents in SNMP.
D	Explain networking with RMON.
Е	What is rule based reasoning? Explain in detail
F	Describe LAN emulation architecture and what added features does it bring
Γ	to a corporate network?

Q3.	Solve any Four out of Six (5 Marks each)
(20 Marks)	
A	Explain in detail the functions of network management?
В	State the changes that were introduced in SNMPv2 as compared to SNMP.
C	Explain TMN Physical Architecture?
D	Explain 5 applications of TNM management (CFAPS)
Е	What is service management
F	Explain the feature of ATM?

Examinations Commencing from 1st June 2021

Program: Electronics & Telecommunication Engineering

Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: ECCDLO8044 and Course Name: Network Management in Telecommunication
Time: 2 hour

Max. Marks: 80

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

Examinations Commencing from 1st June 2021

Program: Electronics and Telecommunication Engineering) (CBCGS)

Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: ECCDLO8041 and Course Name: Optical Networks

Time: 2 hour Max. Marks: 80

Q1	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks	
1	Information transfer is basically carried out in Optical communication by means of	
Option A:	Optical Attenuation	
Option B:	Optical Gain	
Option C:	Low refractive index	
Option D:	Optical Networking	
2.	Optical Network has as a multifunctional element.	
Option A:	Optical Node	
Option B:	HOP	
Option C:	Loss	
Option D:	Gain	
3.	The optical networking uses	
Option A:	Pair of copper conductors	
Option B:	Optical Fiber cable	
Option C:	Antenna	
Option D:	None of above	
4.	Optical networking fundamentals are of the transmission	
	techniques.	
Option A:	Independent	
Option B:	Dependent	
Option C:	Useful	
Option D:	None of above	
5.	Insertion loss in a commercially available circulator is around	
Option A:	2dB	
Option B:	0.7dB	
Option C:	0.2dB	
Option D:	1dB	
6.	SONET in optic networks means	
Option A:	Similar Optical Networks	
Option B:	Serial Optical Networks	
Option C:	Synchronous Optical Networks	

Option D:	Asynchronous Optical Networks	
Орион D.	Asynchronous Optical Networks	
7.	In which topology, data circulates bi-directionally?	
Option A:	Ring	
Option B:	Bus	
Option C:	Star	
Option D:	Serial	
Орион В.	Serial	
8.	In SONET, for each frame, the bytes are transmitted	
Option A:	from left to right, top to bottom	
Option B:	from right to left, bottom to top	
Option C:	from left to right, bottom to top	
Option D:	from right to left, top to bottom	
	and the state of t	
9.	Intopology, star and ring topology is combined.	
Option A:	Fringe	
Option B:	Mesh	
Option C:	Seismic	
Option D:	Synchronous	
•		
10.	Packet Switching is also known as	
Option A:	Data switching	
Option B:	Node switching	
Option C:	Frame switching	
Option D:	Cell switching.	
11.	Circuit is a series of logical connections between source and destination.	
Option A:	Virtual	
Option B:	Gain	
Option C:	Switched network	
Option D:	None of above	
12.	A quantum or quasiparticle propagated as a travelling non-dissipative wave that is	
	neither preceded nor followed by another such disturbance is known as	
Option A:	SONET	
Option B:	Solitons	
Option C:	OTDM C. I	
Option D:	None of above	
12		
13.	The network structure formed due to the interconnectivity patterns is known as a	
Option A:	Network	
Option B:	Topology	
Option C:	Circuit	
Option C.	None of above	
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14.	type of fiber-optic coupler causes the distribution of an optical power from	
17.	more than two input ports among the several output ports.	
Option A:	X coupler	
Option B:	Tree Coupler	
opnon b.	I vves combine	

Option C:	Star coupler		
Option D:	None of above		
1			
15.	Which optical devices are adopted or applicable for routing signals from one waveguide to another?		
Option A:	Coupler.		
Option B:	Splitter		
Option C:	Splice		
Option D:	Combiner		
16.	Which one of following supports a great number of wavelength channels and reduces the number of switches within the optical network?		
Option A:	Waveband switching		
Option B:	Optical remuneration		
Option C:	Optical genesis		
Option D:	Wavelength multiplexing		
17.	is usually required by a packet so that the data is not overwritten.		
Option A:	Guard band		
Option B:	Footer		
Option C:	Header		
Option D:	Payload		
18.	OTDM stands for		
Option A:	Optical Transfer Data Mode		
Option B:	Optical Time Division Multiplexing		
Option C:	Optical Transfer Domain Mode		
Option D:	Optical Transfer Domain Measurement		
19.	In an optical network, increase in the number of lasers the bit rate.		
Option A:	Decreases		
Option B:	Stabilizes		
Option C:	Increase		
Option D:	None of above		
20			
20.	is the function responsible for detecting failures when they		
O 4	happen and isolating the failed component.		
Option A:	Performance management		
Option B:	Configuration management		
Option C:	Fault management		
Option D:	Information management		

Q2.	Solve any Two Questions out of Three 10 marks each
A	Describe any five types of Multiplexers and filters.
В	Explain Operational principle of WDM, WDM network elements, WDM architecture.
С	With reference packet switching and access networks, explain synchronization, broadcast OTDM networks and switch based networks.

Q3.	Solve any Two Questions out of Three	10 marks each
A	Explain Optical network routing principals namely i	mpairment aware
A	routing, optical circuit switching and optical packet switch	hing.
D	With reference to design of optical networks, explain tra	ansmission system
В	model, power penalty transmitter and receiver optical am	plifier.
C	Discuss virtual topology design problem combined SONI	ET/WDM network
	design and regular virtual technologies.	

Examinations Commencing from 1st June 2021

Program: Electronics and Telecommunication Engineering) (CBCGS)

Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: ECCDLO8041 and Course Name: Optical Networks

Time: 2 hour Max. Marks: 80

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