Program: BE Electronics and Telecommunication Curriculum Scheme: Rev2012

Examination: Final Year Semester VIII

Course Code: ETC802 and Course Name: Satellite Communication and Networks Time: 1 hour Max. Marks: 50

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

Q1.	The area on the surface of the earth covered by satellite beam is called as	
Option A:	Zone	
Option B:	Beam width	
Option C:	Band width	
Option C:		
Option D.	Footprint	
Q2.	Number of geostationary orbits possible are	
Option A:	1	
Option B:	2	
Option C:	3	
Option D:	Infinite	
1		
Q3.	The period of geostationary satellite is	
Option A:	Same as earth's period of rotation around its axis	
Option B:	Greater than earth's period of rotation around its axis	
Option C:	Less than earth's period of rotation around its axis	
Option D:	Same as earth's period of rotation around sun	
Q4.	The True Anamoly is	
Option A:	Angle between line of nodes and line of apsides	
Option B:	Angle between orbital plane and equitorial plane	
Option C:	Angular position of satellite from Perigee	
Option D:	Angular position of satellite from Apogee	
Q5.	The effect of Atmospheric drag is more on	
Option A:	LEO	
Option B:	MEO	
Option C:	HEO	
Option D:	Geostationary orbit	
Q6.	The equipment used to provide the service for which the satellite has been	
	launched called as	
Option A:	power control	
Option B:	Attitude control	
Option C:	Payload	
Option D:	Telemetry command	
Q7.	Station keeping deals with	
Option A:	Maintaining attitude control	
Option B:	Maintaining correct orbital slot	

Option C:	Maintaining orbital motion		
Option D:	Maintaining antenna boresight		
_			
Q8.	Thermal blankets and shields may be used to		
Option A:	Provide isolation from heat		
Option B:	Provide insulation from heat		
Option C:	Provide cooling effect from sun radiation		
Option D:	Provide heating effect		
Option D.	Trovide heating effect		
Q9.	A stability of satellite can be achieved by		
Option A:	Firing AKM		
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Option B:	Firing jet thrusters		
Option C:	Gyroscopic effect of a spinning flywheel,		
Option D:	Spinning the satellite itself		
0.10			
Q10.	Intermodulation noise is		
Option A:	Intermodulation occurs where multiple carriers pass through any device with		
	nonlinear characteristics		
Option B:	Where a large number of modulated carriers are present, the inter-modulation		
	products are not		
	distinguishable separately but instead appear as a type of noise which is termed		
	intermodulation		
	noise.		
Option C:	Intermodulation occurs where single carriers pass through any device with		
	nonlinear characteristics		
Option D:	Intermodulation occurs where single carriers pass through any device with linear		
	characteristics		
Q11.	In order to reduce intermodulation noise:		
Option A:	In order to reduce intermodulation noise, the TWT must be operated in a		
1	saturation condition		
Option B:	In order to reduce intermodulation noise, the TWT must be operated in a linear		
1	condition		
Option C:	In order to reduce intermodulation noise, the TWT must be operated in a BO		
1	condition.		
Option D:	In order to reduce intermodulation noise, the TWT must be operated in a on		
· ·	condition		
Q12.	EIRP indicates		
Option A:	The power output of an ideal radiator		
Option B:	The power radiated from a practical antenna		
Option C:	The gain of the antenna		
Option C:	The power output of a transmitter		
- Ծ քննն D .	The power output of a transmitter		
012	What is a naise narrow an atral description		
Q13.	What is a noise power spectral density?		

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Examination 2020 under cluster 4 (PCE)

O-4:- A	NIO DAI/DAI	
Option A:	NO = BN/PN	
Option B:	N0 = PN/BN=KTN joules	
Option C:	N0 = BN/PN =KTNB0 joule	
Option D:	N0=PN/BN	
Q14.	If at End Of Life (EOL) LNA gain of an earth station is expected to decrease by 3	
	dB from the beginning of its operation, but the antenna gain remains same, then	
	G/T of the earth station at EOL will	
Option A:	Remain same	
Option B:	Increase	
Option C:	Decrease	
Option D:	unpredictable	
Q15.	In transmit receive earth station the wide band power signal is connected to	
	antenna through	
Option A:	Diplexer	
Option B:	Power amplifier	
Option C:	Up convertor	
Option D:	Down convertor	
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Q16.	Which of these is common to earth station and space segment of satellite?	
Option A:	Power sub system	
Option B:	TT AND C	
Option C:	AOC	
Option D:	AKM	
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Q17.	The unique word is used to establish	
Option A:	burst timing in TDMA	
Option B:	burst timing in FDMA	
Option C:	Guard time in FDMA	
Option D:	Preamble in TDMA	
r · · ·		
Q18.	DAMA stands for	
Option A:	Data accessibility master aerial	
Option B:	Digital attenuators microwave antenna	
Option C:	Dual accessibility mode antenna	
Option D:	Demand assigned multiple access	
opnon D.		
Q19.	Define guard time.	
Option A:	It is necessary to prevent signals frequency mixing.	
Option B:	It is necessary to prevent signals frequency mixing.	
Option C:	It is necessary to prevent signals frequency mixing.	
Option C:	It is necessary to prevent signals frequency mixing.	
орион Б.	To be necessary to prevent signals frequency mixing.	
Q20.	What is an important feature of Intelsat SCPC system?	
`	The system is that each channel is video activated. This means that on a	
Option A:		
	two way telephone conversation, only one carrier is operative at any one time	

Option B:	The system is that each channel is video activated. This means that on a two way telephone conversation, both carrier is operative at any one time	
Option C:	The system is that each channel is voice activated. This means that on a	
Option D:	two way telephone conversation, only one carrier is operative at any one time. The system is that each channel is voice activated. This means that on a	
Option D.	two way telephone conversation, both carrier is operative at any one time	
Q21.	Which layer is used to link the network support layers and user support layers?	
Option A:	Transport layer	
Option B:	Application layer	
Option C:	Data link layer	
Option D:	Physical Layer	
022	The number of levers in ISO OSI reference model is	
Q22.	The number of layers in ISO OSI reference model is	
Option A:	5	
Option B:	4	
Option C:	6	
Option D:	7	
Q23.	Application layer is implemented in	
Option A:	End system	
Option B:	Ethernet	
Option C:	NIC	
Option D:	Packet transfer	
Q24.	The window in window organization is	
Option A:	The duration of a connection between an up beam and a down beam	
Option B:	The duration of a connection between down beams	
Option C:	The duration of a connection between an up beams	
Option D:	beam transmission	
•		
Q25.	The Frame in Frame organization contains	
Option A:	The frame contains a network field and a traffic field.	
Option B:	The frame contains a synchronizing field	
Option C:	The frame contains a synchronizing field and a traffic field.	
Option D:	The frame contains a traffic field.	

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Examination: Final Year Semester VIII

ETC802 and Course Name: Satellite Communication and Networks

Time: 1 hour Max. Marks: 50

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