

**University of Mumbai**  
**Online Examination 2020**

Program: BE Electronics and Telecommunication Engineering

Curriculum Scheme: Revised 2012

Examination: Final Year Semester VIII

Course Code: ETC802 and Course Name: Satellite Communication and Network

Time: 1hour

Max. Marks: 50

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

Q1.	What is meant by decoding quenching?
Option A:	In certain phase detection systems the phase detector must be allowed phase to recover from one burst before the next burst is received by it. This is known as decoding quenching.
Option B:	In certain phase detection systems the phase detector must be allowed time to recover from one burst before the next burst is received by it. This is known as decoding quenching.
Option C:	In certain phase detection systems the phase detector must be allowed time and phase to recover from one burst before the next burst is received by it. This is known as decoding quenching.
Option D:	In certain phase detection systems the phase detector must be allowed phase and time to recover from one burst before the next burst is received by it. This is known as decoding quenching.
Q2.	Main advantage of optical or Laser communication in satellite system is----
Option A:	Small beam divergence angle, Greater bandwidth and Small Antenna.
Option B:	Large beam divergence angle, Greater bandwidth and Small Antenna.
Option C:	Small beam divergence angle, less bandwidth and Small Antenna.
Option D:	Small beam divergence angle, Greater bandwidth and Larger Antenna.
Q3.	Which layer is responsible for process to process delivery in a general network model?
Option A:	Network layer
Option B:	Transport layer
Option C:	Session layer
Option D:	Data link layer
Q4.	OSI stands for _____
Option A:	Operating system interface

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Option B:	Optical service implementation
Option C:	Open service Internet
Option D:	Open system interconnection
Q5.	What is meant by SCPC?
Option A:	Single channel per carrier
Option B:	Single carrier per channel
Option C:	Single code per channel
Option D:	Single channel per code
Q6.	What is Advantage of a TDMA?
Option A:	The transponder traveling wave tube can be operated at maximum power o/p.
Option B:	The transponder traveling wave tube can be operated at minimum power o/p
Option C:	The transponder traveling wave tube can be operated at saturation power o/p
Option D:	The transponder traveling wave tube can be operated at maximum power o/p or saturation level.
Q7.	The bandwidth of FDMA channel is _____
Option A:	Wide
Option B:	Narrow
Option C:	Large
Option D:	Zero
Q8.	A receiver for direct-sequence spread-spectrum would be
Option A:	A narrowband receiver
Option B:	A direct-conversion receiver
Option C:	A wideband receiver
Option D:	A chip-rate receiver
Q9.	The main function of transmitting earth station _____
Option A:	Receives the information signals from satellite
Option B:	Transmits the information signals to satellite
Option C:	Both transmit and receive the information signals
Option D:	Neither transmits nor receive information signals
Q10.	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
Q11.	The Community Antenna TV (CATV) system uses a

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Option A:	Multiple outdoor units and single feed
Option B:	Single feed
Option C:	Single outdoor unit and multiple feeds
Option D:	Multiple outdoor units
Q12.	What is meant by EIRP?
Option A:	Equivalent Isotropic Radiated Power
Option B:	Energy Isotropic Radiated Power
Option C:	Equivalent Isotropic Resonance Power
Option D:	Equivalent Isotropic Reflected Power
Q13.	The quality of a space-link is measured in terms of the ..... ratio.
Option A:	S/N
Option B:	G/T
Option C:	EIRP
Option D:	C/N
Q14.	Path loss $L_s$ is dependent on
Option A:	Signal power
Option B:	Effective area
Option C:	Wavelength
Option D:	Antenna size
Q15.	Link budget can help in predicting
Option A:	Equipment weight , size and prime power requirements
Option B:	Type of antenna
Option C:	Type of loss
Option D:	Type of modulation
Q16.	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
Q17.	The rotation about _____ axis is called roll in 3-axis stabilization
Option A:	W
Option B:	X
Option C:	Y
Option D:	Z
Q18.	Single conversion bent pipe transponder is used for _____ band

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Option A:	14/11GHz
Option B:	20/10GHz
Option C:	25/15GHz
Option D:	6/4GHz
Q19.	The function of AOCS is
Option A:	To move satellite back to correct orbit
Option B:	To move earth station
Option C:	To move satellite from earth station
Option D:	To move satellite away from its orbit
Q20.	TTC stands for
Option A:	Telemetry,Transport,command and monitoring
Option B:	Telemetry, Tracking, coding and monitoring
Option C:	Telemetry, Tracking, command and monitoring
Option D:	Telemetry, Tracking, command and management
Q21.	What type of antenna is used in GPS systems?
Option A:	Yagi antenna
Option B:	Helical array antenna
Option C:	Loop antenna
Option D:	Parabolic antenna
Q22.	Kepler's first law states?
Option A:	The path followed by a satellite around the primary will be an ellipse.
Option B:	The path followed by a satellite around the primary will be a circle.
Option C:	The path followed by a satellite around the primary will be a sphere.
Option D:	The path followed by a satellite around the primary will be a square.
Q23.	Perigee?
Option A:	The point farthest from earth
Option B:	The point longest from earth
Option C:	The point closest approach to earth
Option D:	The point farthest from sun
Q24.	Ascending node?
Option A:	The point longest from earth
Option B:	The point longest from sun
Option C:	The point closest approach to earth
Option D:	The point where the orbit crosses the equatorial plane going from south to north
Q25.	VSAT stands as

These are sample MCQs to indicate pattern, may or may not appear in examination

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Option A:	Vertical satellite augmented time division
Option B:	Very small aperture terminal
Option C:	Vertical satellite augmented terminal
Option D:	Very small augmented terminal