

University of Mumbai

Examination 2020 under cluster 4 (PCE)

Program: BE Electronics and Telecommunication Engineering

Curriculum Scheme: Rev-2012

Examination: Third Year Semester -VI

Course Code: ETC604 and Course Name: Television engineering.

Time: 1 hour

Max. Marks: 50

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

Q1.	Which of the following camera tube uses lead oxide (pbo) for the photoconductive target plate?
Option A:	Vidicon
Option B:	Saticon
Option C:	Plumbicon
Option D:	Image orthicon
Q2.	Camera signal output without sync is called
Option A:	Black burst
Option B:	Generator lock video
Option C:	Composite video
Option D:	Noncomposite video
Q3.	AVC stands for _____
Option A:	Abrupt Voltage Control
Option B:	Audio Voltage Control
Option C:	Automatic Volume Control
Option D:	Automatic Voltage Control
Q4.	What is the role of Amplitude limiter in the FM receiver?
Option A:	Filtration
Option B:	Adjust the gain of receiver
Option C:	Amplify a weaker signal
Option D:	Demodulate a signal
Q5.	What is the maximum transmission efficiency?
Option A:	67.88%
Option B:	33.33%
Option C:	73%
Option D:	54.03%
Q6.	NTSC is an abbreviation for
Option A:	National Television Sub Committee

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Option B:	National Television Standards Committee
Option C:	National Television Standards Center
Option D:	Never Twice the same color
Q7.	PAL is an abbreviation for
Option A:	Phase Alternate Line
Option B:	Phase Locked Loop
Option C:	Phase Locked Line
Option D:	Picture At Last
Q8.	Maximum luminance level-Y=
Option A:	$0.20R+0.69G+0.11B$
Option B:	$0.30R+0.49G+0.21B$
Option C:	$0.30R+0.59G+0.11B$
Option D:	$0.30R+0.70G$
Q9.	When referring to color TV receivers, ATC stands for
Option A:	Automatic tone control
Option B:	Automatic tint control
Option C:	Automatic television control
Option D:	Automatic tuner control
Q10.	The sampling frequency used for both chrominance components Cr and Cb is
Option A:	13.5 MHz
Option B:	6.75 MHz
Option C:	12 MHz
Option D:	4.25 MHz
Q11.	If the active pixels and lines in a display are 1920×1080 t,hen the actual scanning numbers for each video presentation format on a display are
Option A:	1920×1080
Option B:	2200×1125
Option C:	2000×1200
Option D:	2020×1280
Q12.	The best visual compression quality is achieved using
Option A:	Fourier transform
Option B:	Wavelets
Option C:	DCT
Option D:	Dolby

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Q13.	If frames are displayed on the screen fast enough, we get an impression of_____
Option A:	Signals
Option B:	Motion
Option C:	Packets
Option D:	Bits
Q14.	Refresh rate is usually expressed in
Option A:	Hertz
Option B:	Bit per second
Option C:	Bytes per second
Option D:	Cycles per second
Q15.	MAC system the luminance and chrominance signals are multiplexed using
Option A:	Time multiplexing
Option B:	Frequency multiplexing
Option C:	OFDM
Option D:	Code division multiplexed
Q16.	In MAC color difference components are
Option A:	Combined and transmitted
Option B:	Combined with luma and transmitted
Option C:	Time compressed and transmitted
Option D:	Amplified and transmitted
Q17.	In DTH receiver the wideband signal from LNB is fed to an
Option A:	Mixer
Option B:	Demodulator
Option C:	RF amplifier
Option D:	IF amplifier
Q18.	_____converts whole band or block of frequencies into lower band
Option A:	Dish Antenna
Option B:	Local oscillator
Option C:	LNBC
Option D:	The programming section
Q19.	What is scanning frequency used for Chrominance in MAC for writing the signals in digital store
Option A:	6.75MHz
Option B:	7MHz

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Option C:	11.25MHz
Option D:	13.5MHz
Q20.	DVB Stands for?
Option A:	Digital Video Broadcast
Option B:	Digit Video Bits
Option C:	Decimal Video Bits
Option D:	Dual Video Broadcast
Q21.	The major drawback of the HDTV signal is
Option A:	Needs more power
Option B:	Needs more bandwidth
Option C:	Needs more receiving
Option D:	Devices Needs analog signal
Q22.	In MUSE system Luminance and Chrominance signals are send _____
Option A:	Together
Option B:	Separately
Option C:	Interleave
Option D:	Compositely
Q23.	Which modulation method is used to send the picture and sound signal in MUSE system
Option A:	AM
Option B:	FM
Option C:	PM
Option D:	ASK
Q24.	Which type of TV distributes better viewing angles
Option A:	CRT
Option B:	LED
Option C:	LCD
Option D:	Plasma
Q25.	Which TV's are slimmer
Option A:	Edge-LED lighting
Option B:	RGB LED lighting
Option C:	Plasma
Option D:	LCD

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