

University of Mumbai

Examination 2020 under cluster 4 (PCE)

Program: Electronics and Telecommunication Engineering

Curriculum Scheme: Rev2016

Examination: Third Year Semester V

Course Code: _ECCDLO5012 Course Name: Television & Video Engineering

Time: 1-hour

Max. Marks: 50

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

Q1.	Bandwidth of video baseband signal in India is
Option A:	4.5MHz
Option B:	5MHz
Option C:	5.5MHz
Option D:	6MHz
Q2.	Equalizing Pulses are added in composite video signal to
Option A:	To take care of half-line discrepancy
Option B:	Help horizontal synchronization
Option C:	To provide colour burst signal
Option D:	To simplify horizontal blanking
Q3.	The circuit that separates Sync pulses from composite video waveform is
Option A:	Clipper
Option B:	An integrator
Option C:	A differentiator
Option D:	A keyed AGC amplifier
Q4.	What is the difference between sound carrier and picture carrier frequency in Television
Option A:	7MHz
Option B:	4.5MHz
Option C:	4MHz
Option D:	5.5MHz
Q5.	Electron Multiplication in image orthicon camera is achieved using
Option A:	Target Plate
Option B:	Wire Mesh
Option C:	Dynodes
Option D:	Deaccelerator
Q6.	The size of the chromaticity diagram gives
Option A:	Red Colour
Option B:	Brightness
Option C:	Saturation
Option D:	Hue
Q7.	Varactor diodes are used in the _____ section of the colour TV receiver.
Option A:	Horizontal
Option B:	Vertical

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Option C:	I F
Option D:	Tuner
Q8.	When the colour TV is receiving a UHF band signal ,the mixer in the VHF tuner acts as a
Option A:	I F Amplifier
Option B:	RF Amplifier
Option C:	Mixer
Option D:	Does not function
Q9.	In Delta Gun picture tube the shadow mask blocks _____ % of electrons
Option A:	60
Option B:	50
Option C:	40
Option D:	80
Q10.	Surface Aucoustic Wave Filter is used in _____ section of a Colour TV reciever
Option A:	Tuner
Option B:	Sound
Option C:	I F
Option D:	Video
Q11.	In a typical picture, most pixels will be
Option A:	bright
Option B:	very different to their neighbors
Option C:	very similar to their neighbors
Option D:	equal
Q12.	Without losing quality, JPEG-2000 can achieve compression ratios of
Option A:	2:1
Option B:	20:1
Option C:	200:1
Option D:	2000:1
Q13.	For HDTV which compression technique used
Option A:	MPEG 1
Option B:	MPEG 2
Option C:	JPEG
Option D:	MPEG 4
Q14.	The major difference between a multimedia file and a regular file is _____
Option A:	the size
Option B:	the attributes
Option C:	the ownership
Option D:	the rate at which the file must be accessed
Q15.	Which of the DVB technique is used to achieve the requirement of power

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	savings?
Option A:	DVB-S
Option B:	DVB-C
Option C:	DVB-T
Option D:	DVB-H
Q16.	The transmitter-receiver combination in the satellite is known as a _____
Option A:	Repeater
Option B:	Relay
Option C:	Transponder
Option D:	Duplexer
Q17.	Why are VHF, UHF, and microwave signals used in satellite communication?
Option A:	More bandwidth
Option B:	Are not diffracted by the ionosphere
Option C:	More spectrum space
Option D:	Economically viable
Q18.	Modulation Method used in DVB-S
Option A:	FM
Option B:	AM
Option C:	FSK
Option D:	QPSK
Q19.	Which Television system requires Operating system
Option A:	IPTV
Option B:	Digital Cable TV
Option C:	Smart TV
Option D:	CATV
Q20.	Web Browsing facility is available in which television system
Option A:	Digital Cable TV
Option B:	CCTV
Option C:	CATV
Option D:	Smart TV
Q21.	Chroma signals V and U are time compressed by a factor of
Option A:	3
Option B:	4
Option C:	2
Option D:	5
Q22.	What does CCTV stand for
Option A:	Closed Communication Television
Option B:	Closed circuit technology and video
Option C:	Closed Circuit Technology
Option D:	Closed circuit Television

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Q23.	Generally which technique is not preferred in CCTV transmission
Option A:	Broadcasting
Option B:	Point to point communication
Option C:	Point to Multipoint communication
Option D:	Mesh Wired communication
Q24.	Which type of TV distributes better viewing angles
Option A:	CRT
Option B:	LED
Option C:	LCD
Option D:	Plasma
Q25.	Which type of TV's are slimmer
Option A:	Edge-LED lighting TV
Option B:	RGB LED lighting TV
Option C:	Plasma TV
Option D:	LCD TV

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