

**Note: “These are sample MCQs to indicate pattern, may or may not appear in examination”**

Program: BE Electronics & Telecommunication Engineering

Curriculum Scheme: Revised 2016

Examination: Third Year Semester VI

Course Code: ECCDLO5012 and Course Name: TV & Video Engineering

Time: 1hour

Max. Marks: 50

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

Q1.	According to Fourier analysis, any composite video signal is a combination of sine waves with
Option A:	Different frequencies amplitude and phase
Option B:	Different frequencies
Option C:	Same frequencies
Option D:	Same frequencies with amplitude and phase
Q2.	What determines the maximum number of vertical picture elements?
Option A:	Number of lines on the screen
Option B:	Number of frames per second
Option C:	Number of fields per second
Option D:	Number of pixels
Q3.	Which TV Camera is designed with much lower cost and smaller size than its earlier size
Option A:	Image Orthicon
Option B:	Plumbicon
Option C:	Vidicon
Option D:	Iconoscope
Q4.	In a composite video signal, what is the relation between the amplitude of signal and the intensity of the electron beam in the receiver picture tube?
Option A:	The greater the amplitude the darker the picture
Option B:	The lower the amplitude the darker the picture
Option C:	The greater the amplitude the lighter the picture
Option D:	The lower the amplitude the lighter the picture
Q5.	Frequency interleaving is the process of ..
Option A:	Placing the chrominance signal in the video signal
Option B:	Placing the luminance signal in the video signal

Option C:	Placing the chrominance signal in the band space between portions of the luminance signal
Option D:	Placing the luminance signal in the band space between portions of the chrominance signal
Q6.	In the CVS signal, peak white level is given at
Option A:	10 %
Option B:	22.5 %
Option C:	15 %
Option D:	12.5 %
Q7.	The main components of composite video signal are
Option A:	Picture information
Option B:	Sync Pulses
Option C:	Brightness information
Option D:	Chroma Signal, Blanking pulse and synchronizing pulses
Q8.	What is the smallest amount of information that can be displayed on a television screen?
Option A:	Blip
Option B:	Burst
Option C:	Bits
Option D:	Pixel
Q9.	Equalizing pulses in TV are sent during
Option A:	Horizontal blanking
Option B:	Vertical blanking
Option C:	The horizontal retrace
Option D:	The serrations
Q10.	Indicate which of the following signals is not transmitted in colour TV
Option A:	Y
Option B:	Q
Option C:	R
Option D:	I
Q11.	In a TV receiver, the colour killer
Option A:	Cuts off the chroma stages during monochrome reception
Option B:	Ensures that no color is transmitted to monochrome receivers
Option C:	Prevents colour overloading
Option D:	Makes sure that the colour burst is not mistaken
Q12.	What is the phase difference between I and Q color signal carriers?
Option A:	0°
Option B:	45°
Option C:	90°

Option D:	180°
Q13.	A frame is equivalent to .... scanning lines
Option A:	525
Option B:	625
Option C:	600
Option D:	500
Q14.	What is the approximate bandwidth occupied by the chrominance video signal for colour TV?
Option A:	0.8 MHz
Option B:	1.8 MHz
Option C:	8.1 MHz
Option D:	1.6 MHz
Q15.	Why FM is not used for picture transmission?
Option A:	Because it require high frequency
Option B:	As its more immune to noise
Option C:	Its sensitive to phase changes
Option D:	All of the above
Q16.	What is the primary purpose of a RF amplifier in a receiver?
Option A:	To vary the receiver image rejection by utilizing the AGC
Option B:	To provide most of the receiver gain
Option C:	To develop the AGC voltge
Option D:	To improve the receiver's noise figure
Q17.	What is the chroma subcarrier signal frequency for colour television?
Option A:	3.8 MHz
Option B:	6.8 MHz
Option C:	7.8 MHz
Option D:	8.8 MHz
Q18.	Aspect ratio for cinemascope is
Option A:	1.78
Option B:	2.35 : 1
Option C:	1.33
Option D:	1.85
Q19.	Total number of scanning lines in HDTV is
Option A:	1125
Option B:	1150
Option C:	1200
Option D:	1080
Q20.	Image warping in LCD display corresponds to

Option A:	Narrower viewing angle than the other TV sets
Option B:	Slow response than the other TV sets
Option C:	Thin display
Option D:	Less resolution
Q21.	The value of kell factor for HDTV is assumed to be
Option A:	0.7
Option B:	0.9
Option C:	0.6
Option D:	0.2
Q22.	The typical value of thickness of liquid layer of LCD's is .... mm
Option A:	0.2
Option B:	0.05
Option C:	0.025
Option D:	0.3
Q23.	What is backplane in LCD
Option A:	The amount of power consumed
Option B:	The ac voltage applied between segment and a common element
Option C:	Adjustment for adjusting intensity of LCD
Option D:	The dc voltage applied between common element and segment
Q24.	LCD operates from a voltage ranges from
Option A:	10 - 15 V
Option B:	3 - 15 V
Option C:	5 - 10 V
Option D:	2-9 V
Q25.	Life span of plasma display is less than LCD
Option A:	True
Option B:	false
Option C:	Both are having same life span
Option D:	Depends on the environment conditions