

Program: TE Electronics and Tele-Comm. Engineering

Curriculum Scheme: Revised 2012

Examination: Third Year Semester VI

Course Code: ETC604 and Course Name: Television Engineering

Time: 1hour

Max. Marks: 50

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

Q1.	In television, 4:3 represents the
Option A:	interlace ratio
Option B:	maximum horizontal deflection
Option C:	aspect ratio
Option D:	ratio of the two diagonals
Q2.	The number of NTSC fields sent per second is:
Option A:	25
Option B:	30
Option C:	50
Option D:	60
Q3.	The transmitter-receiver combination in the satellite is known as a _____
Option A:	Relay
Option B:	Repeater
Option C:	Transponder
Option D:	Duplexer
Q4.	The interface between an analog signal and a digital processor is
Option A:	D/A converter
Option B:	A/D converter
Option C:	Modulator
Option D:	Demodulator
Q5.	MUSE (Multiple sub-Nyquist sampling encoding), was an analog high-definition television system, using dot-interlacing and digital video compression to deliver _____-line (high definition video signals to the home).
Option A:	625
Option B:	1125
Option C:	312.5
Option D:	1111
Q6.	Plasma panel are also called

Option A:	Liquid crystal display
Option B:	Gas discharge display
Option C:	Non emissive display
Option D:	emissive display
Q7.	TV broadcasting system in India is as per CCIR
Option A:	System B
Option B:	System I
Option C:	System M
Option D:	System X
Q8.	In a TV receiver, the color 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 color overloading
Option D:	makes sure that the color burst is not mistaken for sync pulses, by cutting off reception during the back porch
Q9.	In the darkness of a cinema, a flash rate of _____ is adequate.
Option A:	48Hz
Option B:	50Hz
Option C:	62Hz
Option D:	60Hz
Q10.	In MAC each line contains _____ samples, out of which _____ samples are used for chroma and luma.
Option A:	1286,1115
Option B:	1329,1116
Option C:	1256,1117
Option D:	1296,1114
Q11.	In HDTV chrominance sampling rate is _____
Option A:	11.4MHz
Option B:	21.2MHz
Option C:	14.3MHz
Option D:	7.15MHz
Q12.	The direction of electric field in an LCD is determined by _____
Option A:	Crystalline surface structure
Option B:	Crystalline surface structure
Option C:	the molecule's chemical structure
Option D:	Quantum Cellular Automata
Q13.	Indicate which of the following signals is not transmitted in color TV
Option A:	Y
Option B:	Q

Option C:	R
Option D:	B
Q14.	----- is a solid state imaging device
Option A:	Charge couple device
Option B:	VIDICON
Option C:	CCTV
Option D:	CATV
Q15.	In a one-to-all communication between one source and all hosts on a network is classified as a _____ communication
Option A:	Unicast
Option B:	multicast
Option C:	Broadcast with multicast
Option D:	broadcast
Q16.	In a colour TV set, alignment of three colour guns to a common point is known as AFC
Option A:	demodulation
Option B:	blooming
Option C:	confetti
Option D:	convergence
Q17.	Both dot and line patterns on a TV screen are produced by
Option A:	sine waves
Option B:	rectangular waves
Option C:	sawtooth waves
Option D:	pulse waveforms
Q18.	In television, 4:3 represents the
Option A:	interlace ratio
Option B:	maximum horizontal deflection
Option C:	aspect ratio
Option D:	ratio of the two diagonals
Q19.	The aspect ratio of a standard TV receiver is:
Option A:	3 : 4
Option B:	4 : 3
Option C:	525 : 625
Option D:	625 : 525
Q20.	Flicker effect is avoided if
Option A:	We increase spatial resolution of video to 1080p resolution;
Option B:	We increase aspect ratio to 16/9;
Option C:	We increase viewing distance to 5 m;
Option D:	We increase refresh rate to 50 Hz.

Q21.	DTH services are provided by _____
Option A:	Transport companies
Option B:	Banks
Option C:	Cellular companies
Option D:	telephone
Q22.	Set Top Box interfaces with Television using a)
Option A:	Ethernet Port
Option B:	Serial Port
Option C:	3- RCA cable
Option D:	RS 232 port
Q23.	The full form of LCD is _____
Option A:	Liquid Crystal Display
Option B:	Liquid Crystalline Display
Option C:	Logical Crystal Display
Option D:	Logical Crystalline Display
Q24.	The aspect ratio HDTV is
Option A:	4:3
Option B:	18:5
Option C:	14:8
Option D:	16:9
Q25.	The contrast of LCD
Option A:	will increase if the back plate is more reflective
Option B:	will decrease if the back plate is more reflective
Option C:	will increase if the back plate is less reflective
Option D:	will decrease if the back plate is less reflective