

BE-II

Electronics and Telecommunication

Multiple choice Question Template

2. Name of Subject: Video Engineering

3. Subject Code: 67816

Id	1
Question	1. The main purpose of interlacing in television scanning is to
A	reduce flicker
B	brighten the TV picture
C	sharpen picture outline
D	increase channel bandwidth
Answer:	A
Marks	2
Unit	1

Id	2
Question	The Advantages of HDTV
A	Improved colour quality
B	Wide screen viewing

C	include 'smart' features
D	All the above
Answer:	D
Marks	2
Unit	4

Id	3
Question	In TV receiver, the synchronizing pulses are fed to
A	The horizontal and vertical deflector plates of the picture tube
B	the control grid
C	the cathode
D	the electron gun
Answer:	A
Marks	2
Unit	1

Id	4
Question	In connection with TV systems, PAL refers to the
A	well-known European company manufacturing TV sets
B	colour TV system used in Europe
C	original 405-line raster standard adopted by UK
D	system followed by BBC, London
Answer:	B
Marks	2
Unit	2

Id	5
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Question	Scanning is
A	the process in which light audio frequency variations are converted into voltage variations
B	the process in which light intensity is converted into variations in potentials
C	the process in which audio frequency variations are converted into corresponding video frequency variations
D	done by a beam of positive rays
Answer:	B
Marks	2
Unit	1

Id	6
Question	The separation of sound and picture carriers in our TV system is ?
A	5.5 MHz
B	4.5 MHz
C	6 MHz
D	5 MHz
Answer:	A
Marks	2
Unit	2

Id	7
Question	The biggest disadvantage of the digital TV is
A	Resolution is less than analog TV
B	Aspect ratio is less
C	You will need special equipment like Set top box.
D	Both A & B
Answer:	C

Marks	2
Unit	3

Id	8
Question	In TV transmission, the sound waves are transmitted by
A	phase modulation
B	frequency modulation
C	amplitude modulation
D	amplitude or phase modulation
Answer:	B
Marks	2
Unit	1

Id	9
Question	The main function of electron gun in a cathode-ray tube is to ---- electrons.
A	deflect
B	produce
C	size
D	aspect
Answer:	B
Marks	2
Unit	2

Id	10
Question	What is the chroma subcarrier signal frequency for color television

A	3.8 MHz
B	6.8 MHz
C	7.8 MHz
D	8.8 MHz
Answer:	A
Marks	2
Unit	2

Id	11
Question	The aspect ratio HDTV is
A	4:3
B	18:5
C	14:8
D	16:9
Answer:	D
Marks	2
Unit	4

Id	12
Question	For NTSC TV system, the image is scanned from
A	Top to bottom
B	Left to right
C	Right to left
D	A & B
Answer:	D

Marks	2
Unit	4

Id	13
Question	One completes NTSC scanning cycle called field consists of how many lines
A	500
B	525
C	625
D	60
Answer:	B
Marks	2
Unit	4

Id	14
Question	Television camera pickup tube is called
A	Vidicon
B	Image orthicon
C	Plumbicon
D	All of the above
Answer:	D
Marks	2
Unit	2

Id	15
Question	Brightness of an image is known as
A	Radiance

B	Chrominance
C	Reflectance
D	Luminance
Answer:	D
Marks	2
Unit	2

Id	16
Question	HDTV have resolution
A	1920 x 1880
B	1880 x 1080
C	1920 x 1180
D	1920 x 1080
Answer:	D
Marks	2
Unit	4

Id	17
Question	The shadow mask in a color picture tube is used to
A	reduce x-ray emission
B	ensure that each beam hits only its own dots
C	increase screen brightness
D	provide degaussing for the screen
Answer:	B
Marks	2
Unit	2

Id	18
Question	VSB modulation is preferred in TV because
A	it reduces the bandwidth requirement to half
B	it avoids phase distortion at low frequencies
C	it results in better reception
D	none of the above
Answer:	A
Marks	2
Unit	1

Id	19
Question	The total bandwidth of an NTSC TV signal is
A	3.58 MHz
B	4.5 MHz
C	6 MHz
D	10.7 MHz
Answer:	C
Marks	2
Unit	3

Id	20
Question	Color picture tubes have _____ guns for its phosphors.
A	1
B	2
C	3
D	4
Answer:	C
Marks	2
Unit	2

Id	21
Question	Equalizing pulses in TV are sent during
A	Horizontal blanking
B	Vertical blanking
C	The serrations
D	The horizontal retrace
Answer:	B
Marks	2
Unit	1

Id	22
Question	The channel width in the NTSC TV system, in MHz, is
A	41.25
B	6
C	4.5
D	3.58
Answer:	B
Marks	2
Unit	2

Id	23
Question	Digital TV have resolution of
A	640×480 pixel
B	650×490 pixel
C	460×480 pixel
D	420×480 pixel
Answer:	A
Marks	2

Unit	4
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Id	24
Question	It is the difference in intensity between the black parts and white parts of the picture.
A	brightness
B	hue
C	contrast
D	illumination
Answer:	C
Marks	2
Unit	2

Id	25
Question	The frequency of scanning in a television set in frames per second is
A	25
B	50
C	30
D	35
Answer:	A
Marks	2
Unit	1

Id	26
Question	NTSC stands for:
A	National Television Systems Commission
B	National Television Systems Committee

C	National Television Systems Council
D	Nippon Television Systems Commission
Answer:	B
Marks	2
Unit	2

Id	27
Question	Deflection in CRTs used in TV receivers is done:
A	magnetically for both vertical and horizontal
B	electrostatically for both vertical and horizontal
C	electrostatically for vertical and magnetically for horizontal
D	magnetically for vertical and electrostatically for horizontal
Answer:	A
Marks	2
Unit	2

Id	28
Question	In a TV receiver set, sound and video signals are separated at the
A	video detector
B	video amp
C	sync separator
D	IF stage
Answer:	A
Marks	2
Unit	2

Id	29
Question	A television system having $N = 525$ and $P = 25$ frames/s has a

	horizontal sync frequency of
A	50
B	15,625
C	625
D	525
Answer:	B
Marks	2
Unit	1

Id	30
Question	TV broadcasting system in India is as per CCIR
A	system B
B	system I
C	system M
D	system X
Answer:	A
Marks	2
Unit	1