Code No:R4204A

R10

Set No. 1

IV B.Tech II Semester Supplementary Examinations, July - 2014 TELEVISION ENGINEERING

Time: 3 hours			Max. Marks: 75	
		Answer any Five Questions		
		All Questions carry equal marks *****		
1	a)	Explain about aspect ratio and picture resolution	[8]	
	b)	Explain about image continuity and synchronization	[7]	
2	a)	Explain about VSB transmission in TV transmission systems	[10]	
	b)	Explain about standard channel BW.	[5]	
3		Discuss in detail about Camera tube types.	[15]	
4	a)	Discuss about 625-line monochrome system in detail.	[8]	
	b)	Explain about Beam deflection	[7]	
5	a)	Explain about sync separation and processing	[8]	
	b)	Draw and explain about scanning circuit	[7]	
6	a)	Explain about vision IF subsystem of Black and White receivers	[10]	
	b)	Explain about AGC	[5]	
7	a)	Explain about Burst phase discriminator	[8]	
\	b)	Explain about ACC amplifier	[7]	
8	a)	Explain about Receiver Antennas in detail	[10]	
	b)	Explain about k noise in sync pulses	[5]	

Code No:R4204A

R10

Set No. 2

IV B.Tech II Semester Supplementary Examinations, July - 2014 TELEVISION ENGINEERING

Time: 3 hours			Max. Marks: 75	
		Answer any Five Questions		
		All Questions carry equal marks		
		****	503	
1	a)	Discuss about PAL encoder.	[8]	
	b)	Explain about encoding of colour difference signals in detail.	[7]	
2	a)	Explain about TV broadcast channels.	[8]	
	b)	Explain about sound signal transmission.	[7]	
3		Draw and explain about Silicon Diode Array Vidicon.	[15]	
4	a)	Explain about Monochromatic Picture tube in television systems.	[10]	
	b)	Write about picture tube characteristics.	[5]	
5	a)	Draw and explain about Electron tuners.	[8]	
	b)	Draw and explain about raster circuits.	[7]	
6	a)	Draw and explain about video and inter carrier sound signal detection	n. [10]	
	b)	Explain about noise cancellation.	[5]	
7	a)	Draw and explain about Indent and colour killer circuits	[8]	
4	b)	Explain about Color burst separation.	[7]	
8	a)	Draw and explain about Deflection Oscillator in detail	[10]	
	b)	Explain about AFC.	[5]	

R10

Code No:R4204A

Set No. 3

IV B.Tech II Semester Supplementary Examinations, July - 2014 TELEVISION ENGINEERING

Time: 3 hours			Max. Marks: 75	
		Answer any Five Questions		
		All Questions carry equal marks *****		
1	a)	Explain about Perception of brightness and colours	[8]	
	b)	Explain about additive colour mixing.	[7]	
2	a)	Explain about Picture signal transmission.	[10]	
	b)	Write the difference between positive and negative modulation	[5]	
3		Discuss in detail about Monochrome TV camera and color cameras	[15]	
4	a)	Explain about American 525 line B&W TV system	[10]	
	b)	Write about picture tube specifications.	[5]	
5		Draw and explain in detail about video amplifier.	[15]	
6	a)	Explain about remote control of receiver functions.	[8]	
	b)	Draw and explain about Colour receiver IF subsystem.	[7]	
7	a)	Explain about separation of U and V signals.	[8]	
	b)	Explain about U & V demodulators.	[7]	
8	a)	Explain about Direct to Home Satellite TV.	[8]	
	b)	Explain about Digital TV Receiver.	[7]	

Code No:**R4204A**

R10

Set No. 4

IV B.Tech II Semester Supplementary Examinations, July - 2014 TELEVISION ENGINEERING

Ti	Max. Marks: 75				
Answer any Five Questions All Questions carry equal marks *****					
1	Explain about TV transmitter and receivers in detail.	[15]			
2 a) Explain about TV transmission Antennas in detail.	[8]			
ł	Explain about signal propagation in television systems.	[7]			
3 a	Explain about CCD Image Sensors.	[8]			
ł	What are the different Camera tube types and explain one in detail	[7]			
4 a) Draw and explain about Electrostatic focusing system in televisions.	[10]			
ł) Briefly explain about NTSC colour system. •	[5]			
5 a) Draw and explain about IF subsystem.	[8]			
ŀ) Draw and explain about synchronous demodulators.	[7]			
6	Explain about digital tuning techniques in detail.	[15]			
7 a) Draw and explain about Reference oscillator.	[8]			
ł	Explain about Colour signal mixing.	[7]			
8 a) Draw and explain about single ended AFC circuit.	[8]			
1	Explain about Digital Terrestrial TV.	[7]			