Scheme – E

Sample Question Paper

Course Name : Electronics Engineering Group.				
Course Code : EN/EX/EJ/DE/ED/EI				
Semester		: Fifth for ET/EN/EX/EJ/DE AND Sixth for ED/EI	12190	
Subject Title		: Audio Video Engineering		
Marks		: 100	Time: 3 Hrs.	
Instru	ctions:			
	1.	All questions are compulsory		
	2.	Illustrate your answers with neat sketches wherever necessary	/	
	3.	Figures to the right indicate full marks		
	4.	Assume suitable data if necessary		
	5.	Preferably, write the answers in sequential order		
Q.1- <i>A</i>	12 Marks			
a.	List the characteristics of Hi-Fi amplifier. Draw its block diagram.			
b.	State th			
c.	Define vertical resolution & horizontal resolution.			
d.	How U	& V signal are separate?		
			06 Marks	
Q.1- I	B Attem	pt any ONE		
a.	How h	igh voltage is generated by EHT circuit in colour TV receiver.		
b.	Draw a	and explain block diagram of colour TV transmitter.		
Q.2 A	ttempt a	any FOUR	16 Marks	
a.	Compa	re Hi-Fi amplifier with stereo amplifier.		
b.	Explain	n why AM is preferred for picture and FM for sound.		
c.	Give th	e CCIRB standard for colour TV.		
d.	What is	s the need of pre-equalising & post-equalising pulse in CVS?		
e.	Draw &	& explain the block diagram of DTH system.		

Q.3 Attempt any FOUR			
a. What is colour bust signal? Why and where is it added?			
b. Draw typical signal distribution plan of cable TV system.			
c. What is VSB transmission? Describe its necessity.			
d. Give the specification of DISH Antenna.			
e. Give the advantages of fluorescent display system used in CD play	yer.		
Q.4-A Attempt any TWO	12 Marks		
a. Explain the block diagram of dB meter.			
b. Explain principle & working of detection used in CD player.			
c. State and explain necessity of cross-over network in Hi-Fi amplifi	er.		
Q.4-B Attempt any ONE	06 Marks		
a. Draw block diagram of PAL-D decoder and explain the same.			
b. Draw and explain block diagram of black & white TV receiver.			
Q.5 Attempt any FOUR			
a. Explain principle & working of Delta Gun Picture tube.			
b. What is the need of terminating resistance in MATV.			
c. Draw & explain the circuit diagram of RGB drive amplifier.			
d. With neat sketch explain constructional details of vidicon picture	tube.		
e. Define the term persistence of vision. How it helps in image cont	inuity.		
Q.6 Attempt any FOUR			

- a. What are the 4 bands & their frequencies where boosting is tone in Dolby A system?
- b. What is compatibility & how it can be achieved?
- c. Why vertical sync pulses are notched?
- d. Draw & explain the diagram of PIL picture tube.
- e. Give the different components used in CD player & explain any one of them.