B.Tech. - VIEP - ELECTRONICS AND COMMUNICATION ENGINEERING (BTECVI)

Term-End Examination

00266

June, 2016

BIELE-001: TELEVISION ENGINEERING

Tin	ne : 3 l	hours Maximum Marks	Maximum Marks: 70	
Note: Attempt any seven questions. All questions equal marks.			carry	
1.	(a)	What is compatibility in TV transmission?	3	
	(b)	Draw and explain the transmitter block diagram of television.	7	
2.	What is meant by equal vertical and horizontal resolution? Derive the expression for highest modulating frequency in a television system.			
3.	What is a ghost image? What causes it to appear on the TV receiver screen along with the reproduced signal?			
4.	Explain with suitable sketches the basic principle of solid state image scanner camera and describe how CCD array is scanned to provide interlaced			
scanning. BIELE-001			<i>10</i> .T.O.	

 6. Explain the working of PAL Coder with the help of a block diagram. 7. Draw the Delta-Gun colour picture tube and explain its operation. What are the drawbacks of Delta-Gun tube? 8. Give the three colour television systems used in the world with their main features. Explain the colour television system used in India. 9. What are NTSC standards? Give the general specification for NTSC standards. 10. Write short notes on any two of the following: 2×8 	10
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	10
(a) Blanking	=10
(b) Luminance and hue	=10
(c) Wave traps	=10