Maximum Marks:80

Note: 1. Question no. 1 is compulsory. 2. Out of remaining questions, attempt any3questions. In all 4questions to be attempted. 3. All questions carry equal marks. 4. 5. Answer to each new question to be started on a fresh page. Figure in brackets on the right hand side indicate full marks for a question. 6. 7. Illustrate answer with neat diagrams wherever necessary. Q1. Attempt any 4 from the following:-Draw and explain receiver block diagram of monochrome television. a) Why (G-Y) signal is not transmitted in color television signal? b) c) Explain why Chroma is subsampled in digital TV system? Explain satellite television by using suitable diagrams. d) What are advantages and disadvantages of MAC? e) 6 Q2 Draw and explain composite video signal by labeling different parts. Give the details of [10] vertical blanking and sync pulse. b) Explain the concept Frequency Interleaving in color television. [10] Q3 Draw and explain NTSC encoder block diagram. [10] a) b) List the advantages of digital television over analog television system. [10] Write short note on DCT. a) [10] [10] b) Write a short note on LCD display. What are DVB standards? Explain the characteristic features of DVB-T, DVB-C, DVB-S, [10] a) and DVB-H. Explain HDTV in detail. [10] b) Write a short note on any two: [10] i. Chromcast ii. Set top box iii. Compatibility considerations in monochrome and color television NTSC system characteristics iv. Explain the working of LED display. [10]

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Time: 3 Hours