Paper / Subject Code: 37004 / TELEVISION ENGINEERING

[Marks:80]

Tuesday, May 28, 2019 02:30 pm - 05:30 pm 1T01016 - T.E.(ELECTRONICS & TELE-COMMN.)(Sem VI) (CBSGS) / 37004 - TELEVISION ENGINEERING 23610 Q.P. Code:23610

[Time: Three Hours]

Please check whether you have got the right question paper. 1. Question.No.1 is compulsory. N.B: 2. Answer any Three out of remaining six questions. 3. Draw the neat diagrams wherever necessary. 20 Q.1 1 Answer the following Draw and Explain of color difference signal circuit. a. b. Explain the specification of vertical sync pulse and need of serrations in it What is the function electron multiplier in image orthicon camera tube c. Explain EBU MAC system in brief. d. Q2 What is NTSC? Draw and explain NTSC Decoder. 20 a) What is MUSE system? Explain its technical specifications, advantages and b) disadvantages. 20 Q3 Draw and Explain half line discrepancy. How can it be eliminated? a) b) Explain: 1) Why $(G-\gamma)$ signal is not selected for transmission? 2) Explain how effective number of lines is evolved. Q4 a) Draw sync separator section in Television system and explain it in detail. 20 Draw and explain color television camera system and what the purpose of dichroic b) lance is. Q.5 Draw and explain delta gun color picture tube. 20 a) Explain MAC signal its compression technique and scanning frequency. b) Q.6 Write short notes on (any two) 20 Cancellation of phase error in PAL. a) Compatibility factors for monochrome and color television. b) c) DTH Television system.