

Television & Video Engineering

P. Pages : 2

Time : Three Hours



NKT/KS/17/7452

Max. Marks : 80

- Notes :
1. All questions carry marks as indicated.
 2. Solve Question 1 OR Questions No. 2.
 3. Solve Question 3 OR Questions No. 4.
 4. Solve Question 5 OR Questions No. 6.
 5. Solve Question 7 OR Questions No. 8.
 6. Solve Question 9 OR Questions No. 10.
 7. Solve Question 11 OR Questions No. 12.
 8. Due credit will be given to neatness and adequate dimensions.
 9. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) What do you understand by resolution factor or key factor? How does it affects vertical resolution of T.V. picture? 7

b) What do you understand by interlaced scanning? Show that it reduces the flicker. 7

OR

2. a) Draw the colour composite video signal and indicate following parameters. 7

- | | |
|--------------------|------------------------|
| 1) White Level | 2) Blanking level |
| 3) Pedestal height | 4) Back & Front porch. |

b) Explain how the 'Y' and colour difference signal are developed from camera output. 7

3. a) Give the comparison betn NTSC, PAL and SECAM system. 6

b) Explain the delay line - method of separating U and V signal in PAL Receiver. 7

OR

4. a) Write short notes on pattern generator. 6

b) Explain different type of T.V. transmission Antena. 7

5. a) Draw and explain digital TV system with block diagram. 7

b) What is mean by MAC? Explain. 7

OR

6. a) What are the different compression techniques for video transmission in Television system. 7

b) Write short notes on advance MAC signal transmission. 7

7. a) Draw and Explain working of HDTV Transmitted. 6
b) Explain "Direct to Home" system. 7

OR

8. a) Write short notes **any one**. 6
i) CATV ii) CCTV
b) Explain setup box with recording facility. 7

9. a) Draw and Explain mobile TV with block diagram. 6
b) Explain Video Transmission in 3G mobile system. 7

OR

10. a) Write the short notes on IP audio and video. 6
b) Write the short notes on video projector. 7

11. a) What are the different display technology in Television system. 6
b) Explain blue ray DVD player. 7

OR

12. a) Explain Dish TV with block diagram. 6
b) Write short notes on Handycams. 7
