



B.Sc. VI Semester Degree Examination, Sept./Oct. - 2024

ELECTRONICS

DSC-13 : Television and Digital Communication System

(NEP)

Time : 2 Hours

Maximum Marks : 60

Note : Answer **all** Sections.

SECTION - A

1. Answer the following : **10x1=10**
- (a) What is Synchronization ?
 - (b) What is Luminance Signal ?
 - (c) What is SECAM System ?
 - (d) What is FDMA technique in Satellite System ?
 - (e) Expand PCM.
 - (f) What is optical fibre ?
 - (g) Define Channel.
 - (h) What are Primary colors ?
 - (i) What is Raster in TV ?
 - (j) What is bit recovery time ?

SECTION - B

Answer **any four** questions.

4x5=20

- 2. What are TV standards measures ?
- 3. List the characteristics of Camera Tubes.
- 4. Describe the interlaced scanning process in TV.
- 5. What is Digital Communication System ? List the merits of Digital communication system.
- 6. What are the advantages of Optical Communication System ?
- 7. Briefly describe the functional characteristics of UP-link model for a Satellite.



SECTION - C

Answer **any three** questions.

3x10=30

8. Explain the working of Monochrome TV receiver with neat block diagram.
9. With neat block diagram of Satellite Communication System, explain each block.
10. What is Base Band Transmission, explain Synchronous Transmission System ?
11. Explain with neat block diagram optical communication system.
12. With neat block diagram explain color TV receiver.
13. Write a note on :
 - (a) Internet
 - (b) Pulse Amplitude modulation

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