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**Question Paper Code: 59411**

B.E./B.Tech. DEGREE EXAMINATION, NOV 2018

Elective

Electronics and Communication Engineering

15UEC911 – TELEVISION AND VIDEO ENGINEERING

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

- Which of the following camera tubes has minimum lag? CO1-R  
(a) Vidicon                      (b) Plumbicon                      (c) Saticon                      (d) Iconoscope
- What is the impedance at the antenna input terminals of a TV receiver? CO2-R  
(a) 300 ohms                      (b) 150 ohms                      (c) 50 ohms                      (d) 100 ohms
- The carrier to noise ratio for a satellite depends upon CO3-U  
(a) Effective Isotropic Radiated power      (b) Bandwidth      (c) Free space path losses      (d) All of them
- Is the most common technique where apartment house, hotels, schools, condominiums, and multi-unit buildings distribute TV and FM signals to a number of receivers, using a single head-end. CO4-R  
(a) CCTV                      (b) CATV                      (c) MATV                      (d) Antenna
- The color level control is in the CO5-R  
(a) Demodulator                      (b) AFPC                      (c) BPA                      (d) G-Y amplifier

PART – B (5 x 3= 15 Marks)

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|--------------------------------------------|-------|
| 6. Define picture resolution.              | CO1-R |
| 7. List the features of PAL color system.  | CO2-R |
| 8. List the merits of Digital TV receiver. | CO3-R |
| 9. Write short notes on CCTV               | CO4-U |
| 10. What is meant by curved TV?            | CO5-U |

PART – C (5 x 16= 80 Marks)

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|-----------------------------------------------------------------------------------------------------|-------|------|
| 11. (a) Explain in detail about the Fundamental Concepts of television.                             | CO1-U | (16) |
| Or                                                                                                  |       |      |
| (b) Explain in detail about the Television camera tubes-Picture tubes                               | CO1-U | (16) |
| 12. (a) With Neat sketch explain about the Television antennas and propagation                      | CO2-U | (16) |
| Or                                                                                                  |       |      |
| (b) With Neat sketch explain about the SECAM Transmitter and Receiver                               | CO2-U | (16) |
| 13. (a) Explain in detail about the satellite TV.                                                   | CO3-U | (16) |
| Or                                                                                                  |       |      |
| (b) Explain in detail about the DTH system.                                                         | CO3-U | (16) |
| 14. (a) Discuss applications of CCTV, MATV, CATV.                                                   | CO4-U | (16) |
| Or                                                                                                  |       |      |
| (b) What is pay TV? Discuss scrambling and descrambling techniques?                                 | CO4-U | (16) |
| 15. (a) With neat sketch explain the Principle, working, advantages and disadvantages of Plasma TV. | CO5-U | (16) |
| Or                                                                                                  |       |      |
| (b) With neat sketch explain the Principle, working, advantages and disadvantages of LCD TV.        | CO5-U | (16) |