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Question Paper Code: 59276

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

Open elective

Civil Engineering

15UEC971 – CONSUMER ELECTRONICS

(Common to CSE, EEE, EIE, Mechanical, IT, Chemical)

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5x 1 = 5 Marks)

1. Diaphragm is made up of CO1- R
(a) Aluminium (b) Duralumin (c) Carbon (d) Copper
2. In NTSC standards, the total number of equalizing pulses per field is CO2- R
(a) 10 (b) 12 (c) 5 (d) 6
3. The maximum count for a C90 cassette side is CO3- R
(a) 480 (b) 570 (c) 680 (d) 760
4. The number to be dialed or called to reach a subscriber in the same CO4- R
local network or numbering area is
(a) Local code (b) Area code (c) Toll access code (d) Subscriber number
5. In microwave oven, the micro waves have a special property that CO5- R
they are absorb by
(a) water (b) fats (c) sugar (d) all of the above

PART – B (5 x 3= 15 Marks)

6. Draw and explain different microphone pickup patterns. CO1-U
7. Why is scanning necessary in television system? CO2- R

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| 8. | Differentiate fast forward and rewind. | CO3- R |
| 9. | Differentiate between LANs, MANs and WANs. | CO4- R |
| 10. | List out the factors that deserve attention while choosing waveguides. | CO5- U |

PART – C (5 x 16= 80Marks)

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| 11. | (a) What is the working principle of loud speaker? Explain about different types of loudspeakers based on its construction. | CO1- U | (16) |
| | Or | | |
| | (b) Explain the construction and working of carbon and condenser microphones. Also give their characteristics. | CO1- U | (16) |
| 12. | (a) Explain PAL- D decoder with necessary diagrams. | CO2- U | (16) |
| | Or | | |
| | (b) Compare and contrast different television standards in detail and mention their special features. | CO2- U | (16) |
| 13. | (a) What are the parts inside the audio cassette and explain the function of each in detail. | CO3- U | (16) |
| | Or | | |
| | (b) Explain the various steps involved in the reconstruction of Audio signal. | CO3- U | (16) |
| 14. | (a) Explain about the use of circuit switching in telephone systems. Compare it with packet switching technique. | CO4- U | (16) |
| | Or | | |
| | (b) Explain the working of wireless local loops and its use in paging systems. | CO4- U | (16) |
| 15. | (a) Discuss in detail on the use of magnetron oscillator in microwave oven and draw the features available in oven. | CO5- U | (16) |
| | Or | | |
| | (b) Explain the components of air conditioning system and its various types with neat diagrams. | CO5-U | (16) |