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Roll No. :

328832(28)

B. E. (Eighth Semester) Examination, Nov.-Dec. 2021

(New Scheme)

(Et & T Engg. Branch)

CONSUMER ELECTRONICS

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Part (a) of each unit is compulsory carry 2 marks. Attempt any two parts from (b), (c) and (d) carry 7 marks.

Unit-I

1. (a) Define the aspect ratio. 2
- (b) Explain the working of monochrome TV system along with block diagram. 7

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- (c) Write short notes on : 7
- (i) Interlacing of Scanning Lines
 - (ii) Elements of Television system
- (d) What do you mean by Composite Video Signal?
Explain in details the no of CVS signal. 7

Unit-II

2. (a) Define the Luminance Signal. 2
- (b) With the help of neat sketch explain the principle of working of colour picture tube. 7
- (c) Write short notes on : 7
- (i) Recombination to Natural Color
 - (ii) Color Subcarrier Frequency
- (d) What do you understand by phase error in colour transmission? Explain how it is cancelled in PAL colour system. 7

Unit-III

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3. (a) What do you understand wireless by communication? 2
- (b) Explain the working principle of carbon microphone. 7
- (c) Explain in details Reconstitution of the Audio Signal. 7
- (d) Explain the parameters on which quality of microphone depends. 7

Unit-IV

4. (a) What are the ideal characteristic of a loudspeaker? 2
- (b) Explain in details Permanent Magnet Loudspeaker. 7
- (c) Write short notes on : 7
- (i) Indoor Acoustics
 - (ii) Voice coil
- (d) Explain the different types of public speaking system in details. 7

Unit-V

5. (a) What do you mean by car navigation? 2

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- (b) Explain in details block diagram of Microwave Oven system. 7
- (c) Write short notes on : 7
- (i) Electronically Control Suspension of car
 - (ii) Fuzzy Logic Washing Machine
- (b) What are the car safety features explain in details? 7