

**328832(28)**

**B. E. (Eighth Semester) Examination,**

**April-May 2019**

**(New Scheme)**

**(Et&T Engg. Branch)**

**CONSUMER ELECTRONICS**

**Time Allowed : Three hours**

**Maximum Marks : 80**

**Minimum Pass Marks : 28**

*Note : Part (a) of each unit is compulsory carry 2 marks. Attempt any two parts from (b), (c) and (d) carry 7 marks. Assume suitable data if required.*

**Unit-I**

- 1. (a) Define Kell factor in TV. 2

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- (b) What is interlaced scanning and explain how it reduces flicker and conserves bandwidth. 7
- (c) Draw the block diagram of Transmitter & Receiver of Monochrome T.V. & explain function of each block. 7
- (d) What do you understand by vertical & horizontal resolution? Show that the highest modulation frequency that needs to be handled in the 625 TV system is 5 MHz. 7

**Unit-II**

- 2. (a) What do you understand by Grassmann's law? 2
- (b) Explain formation of chrominance signal in colour T.V. in detail. 7
- (c) Explain in detail HDTV. What are advantages & disadvantages of HDTV? 7
- (d) What is phase error in color transmission? Explain how it is cancelled in PAL color system. 7

**Unit-III**

- 3. (a) Define Microphone, its sensitivity in SI unit. 2

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- (b) Explain in detail the working of carbon microphone draw a neat figure of construction. Also give its application. 7
- (c) Explain the construction and working of ribbon microphone with suitable diagram. Also give advantages & disadvantages of ribbon microphone. 7
- (d) Explain working of CD Audio sampling and reconstruction in detail. 7

**Unit-IV**

- 4. (a) Define directivity in loudspeaker. 2
- (b) What are public address system? Draw its block diagram also given its applications in railways. 7
- (c) Explain the classification of permanent magnet loudspeaker. 7
- (d) Describe the construction and principle of Horn-type loudspeaker in detail. 7

**Unit-V**

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- 5. (a) What is transit time effect? 2
- (b) Draw the block diagram of Microwave oven and explain each block. 7
- (c) Explain the working of Neuro-fuzzy washing machine. 7
- (b) Explain the working of car navigation system with suitable block diagram. Give its advantages and disadvantages. 7

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