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Roll No. : .....

**328832(28)**

**B. E. (Eighth Semester) Examination, April-May 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. Diagram should be neat clean and properly labelled.***

**Unit-I**

1. (a) Define the term Kell Factor. 2
- (b) Draw the functional block diagram of monochrome television system and explain in detail. 7

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- (c) Define the term Aspect Ratio and also explain Persistence of Vision and Flicker. 7
- (d) What do you understand by Interlacing of Scanning Lines? Explain in detail. 7

**Unit-II**

2. (a) Define the term Luminance Signal. 2
- (b) Draw the block diagram of Color TV transmitter and Receiver and explain in detail. 7
- (c) What are differences in TV generation where advancement will explain in terms of "High Definition". 7
- (d) Explain Interleaving Process of signal in detail. 7

**Unit-III**

3. (a) Define how voice transducer perform their work. 2
- (b) Draw the functional diagram of Carbon Microphone and explain in detail. 7

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- (c) Draw and explain functional diagram of Wireless Microphone and explain in detail. 7
- (d) How Audio Signal is recorded draw and explain their working? 7

**Unit-IV**

4. (a) Define the term "Tweeters". 2
- (b) Draw and explain final block diagram of capacitor type loud speaker and explain in detail. 7
- (c) Define the term PA System explain functional diagram of PA system. 7
- (d) What is the use of Woofers and also working of Horn type loudspeaker? 7

**Unit-V**

5. (a) Define ultrasonic car safety belt system. 2
- (b) Draw the block diagram of Washing Machine and explain in detail. 7

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- (c) Explain block diagram of LCD in detail. 7
- (b) Explain Anti Lock Braking System for car safety measures. 7

Unit-IV

4. (a) Define the term 'Welding' and also working of

(b) Draw and explain block diagram of capacitor

(c) Explain the use of 'Welder' and also working of

(d) Define the term 'Resistance' and also working of

(e) Explain the use of 'Welder' and also working of

(f) Define the term 'Welding' and also working of

(g) Explain the use of 'Welder' and also working of

Unit-V

5. (a) Define the term 'Welding' and also working of

(b) Draw and explain block diagram of welding machine and

(c) Explain the use of 'Welder' and also working of