

**328753(28)**

**B. E. (Seventh Semester) Examination,  
April-May 2020**

**(Old Scheme)**

**(Electronics & Telecommunication Engg. Branch)**

**CONSUMER ELECTRONICS**

**(Elective-II)**

*Time Allowed : Three hours*

*Maximum Marks : 80*

*Minimum Pass Marks : 28*

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

**Unit-I**

- 1. (a) Define Audiometry. 2
- (b) What are Microphones? Explain its characteristics & types. 7

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- (c) Define Headphones. Explain crystal headphone in detail. 7
- (d) Explain AGC in detail. 7

**Unit-II**

- 2. (a) What is noise in Loudspeaker? 2
- (b) Explain the type of tweeters in detail. 7
- (c) Explain Acoustics. What are listening room characteristics? 7
- (d) Write short notes on : 7
  - (i) Paging
  - (ii) Sound pick up

**Unit-III**

- 3. (a) Explain Auto-eject of stereo player. 2
- (b) What are Signal Modifiers? Explain in detail. 7
- (c) Write note on Electronic Music Synthesizers. 7

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- (d) Write notes on : 7
- (i) Voltage control
  - (ii) Envelope Generator

**Unit-IV**

4. (a) Define Electronic Ignition in Car. 2
- (b) Explain Xerographics process in detail. 7
- (c) Write notes on : 7
- (i) Air Bag System
  - (ii) Vehicle Proximity
- (d) Explain Car Navigation System in detail. 7

**Unit-V**

5. (a) What is the principle of Air Conditioning? 2
- (b) Write Refrigeration System in detail. 7
- (c) Explain Electronic Washing Machine in detail. 7
- (d) Explain working of Microwave Oven with neat diagram. 7