



Printed Pages : 2

TOE18

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 0918**

Roll No.

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**B.Tech**

(SEM VII) ODD SEMESTER THEORY EXAMINATION 2009-10  
CONSUMER ELECTRONICS

Time : 3 Hours]

[Total Marks : 100

**Note :** *Attempt all questions.*

- 1 Attempt any **four** of the following : **5×4=20**
- (a) With the help of diagram explain the working of a dynamic microphone.
  - (b) Discuss the significance of reverberation. What will happen if the reverberation time is too long ?
  - (c) What is the need for a baffle ? Discuss the action of on infinite baffle.
  - (d) Explain the difference between a mono and a stereo system.
  - (e) Explain the difference between monaural and stereophonic systems.
  - (f) What is a sound track and how it is recorded ?
- 2 Write short notes on any **two** of the following : **10×2=20**
- (a) Colour TV Systems
  - (b) HDTV
  - (c) Video conferencing.



3 Attempt any **two** of the following 10×2=20

- (a) Draw the block diagram and briefly explain a facsimile machine.
- (b) Define Magnetrons and waveguides.

Draw the block diagram of a Microwave oven and briefly explain each block.

- (c) With the help of suitable sketch, describe a cellular mobile telephone system. What is the role played by transmitting receiving antenna in a mobile communication system.

4 Attempt any **two** of the following : 10×2=20

- (a) Explain the recording and playback system of an optical video disc.
- (b) Describe the basic principle of video recording. Compare audio cassette recording with video cassette recording.
- (c) What is format ? Compare the three most popular video formats. Enumerate the relative similarities of the three formats.

5 Write short notes on any **two** of the following : 10×2=20

- (a) Colour TV systems
- (b) HDTV
- (c) Video conferencing.

