



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 : $10 \times 2 = 20$

(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 : $10 \times 2 = 20$

(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 : $10 \times 2 = 20$

(a) Colour TV systems

(b) HDTV

(c) Video conferencing.

