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MANIPAL INSTITUTE OF TECHNOLOGY  
Manipal University



**FOURTH SEMESTER B.Tech. (E & C) DEGREE END SEMESTER EXAMINATION  
MAY/JUNE 2016**

**SUBJECT: CONSUMER ELECTRONICS (ECE - 344)**

**TIME: 3 HOURS**

**MAX. MARKS: 50**

**Instructions to candidates**

- Answer any **FIVE** full questions
- Missing data may be suitably assumed.

- 1A. Explain the principal behind cellular communication. What you mean by Handover and why it is required.
- 1B. Explain the working of a dynamic (moving coil) microphone with the help of neat diagram.
- (5+5)
- 2A. Explain the working of crystal loudspeaker with neat diagram.
- 2B. Explain monochrome picture tube with diagram.
- 2C. Explain different type of hearing aids used and explain any one.
- (5+3+2)
- 3A. Draw the block diagram of an Air conditioner? Briefly explain each block.
- 3B. Explain with neat block diagram the working of a GSM system.
- (5+5)
- 4A. With neat block diagram explain each block in washing machine.
- 4B. Explain the working of a Refrigeration system with block diagram.
- 4C. What are primary colour, secondary colour and complementary colour?
- (5+3+2)
- 5A. Explain the working of a stereo system with the help of a neat diagram.
- 5B. Draw composite video signal and explain in detail the various control pulses in that.
- 5C. Explain blue ray Technology.
- (5+3+2)
- 6A. What is cordless telephony? Explain various cordless telephone.
- 6B. Explain construction and working of different camera tubes.
- (5+5)