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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. Discuss Handover in cellular communication and why it is required? Explain two different types of handover.
- 1B. With the help of a diagram, explain the working of a dynamic (moving coil) microphone. (5+5)
- 2A. What are the different types of loudspeaker? Explain the working of a permanent magnet loudspeaker, with a neat diagram.
- 2B. Explain monochrome picture tube ,with a diagram.
- 2C. What is banking pulse in TV? Discuss. (5+3+2)
- 3A. With a block diagram, explain the working of a FAX machine.
- 3B. Explain with neat block diagram, the working of a GSM system. (5+5)
- 4A. Draw the block diagram of a microwave oven? Briefly explain each block.
- 4B. Describe working of a Refrigeration system with block diagram.
- 4C. Explain the range of frequencies used in microwaves. (5+3+2)
- 5A. Explain DTH and Cable TV working with neat block diagram.
- 5B. Draw composite video signal and explain in detail the various control pulses in that.
- 5C. Explain the principle used in stereo transmission. (5+3+2)
- 6A. Describe the working of a CD and DVD.
- 6B. What is DTMF? Explain in detail with block diagram. (5+5)