



P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)

Seventh Semester, B.E. - Electronics and Communication Engineering

Semester End Examination; Dec - 2016/Jan - 2017

Multimedia Communication

Time: 3 hrs

Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

UNIT - I

- 1 a. Describe with neat sketch, the working of Movie/Video on demand. 10
- b. Explain in detail with diagrams : 10
- (i) Circuit switched network (ii) Packet switched network.
- 2 a. Explain the various modes of multi point conferencing with a neat diagram. 10
- b. Explain the working of broadcast television networks with a suitable schematic. 10

UNIT - II

- 3 a. Discuss about procedure for image capturing RGB signal generation. 10
- b. Describe in detail with diagram of audio/sound synthesizer with a suitable schematic. 10
- 4 a. Discuss the following file formats : 10
- (i) QCIF (ii) CIF (iii) SIF.
- b. Discuss the baseband spectrum of color TV signal in NTSC system. 10

UNIT - III

- 5 a. Describe the various stages of JPEG decoder with aid of neat diagram. 10
- b. Explain the principle of transform coding with DCT as an example. 10
- 6 a. Explain the basic principles of H.261 video encoder, with a neat schematic. 10
- b. Discuss the operation of basic ADPCM signal encoder and decoder with the help of a neat diagram. 10

UNIT - IV

- 7 a. Explain the two party call setup procedure using H:323 gate keeper. 10
- b. Describe the role of each of five layers of TCP/IP reference model, with the aid of diagram. 10
- 8 a. Explain the standards relating to interpersonal communications. 10
- b. Discuss the working of e-mail over Internet. 10

UNIT - V

- 9 a. Write a short notes on : (i) Cable TV networks (ii) Satellite television networks. 10
- b. Explain the role of security gateway and proxy server with help of diagram. 10
- 10 a. Explain the various principles of HTTP standard applications protocol with the aid of a neat diagram. 10
- b. Describe the terms: 10
- (i) HTTP (ii) HTML (iii) Hyper Text (iv) Hyper link related to web.