U.S.N ☐☐☐☐☐☐☐☐☐☐

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 10
     diagram.

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 10
      diagram.

  b. Describe the terms: 10
     (i) HTTP   (ii) HTML   (iii) Hyper Text   (iv) Hyper link   related to web.

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