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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. - 2014
Multimedia Communication

Time: 3 hrs   Max. Marks: 100

*Note: Answer any **FIVE** full questions, selecting at least **TWO** full questions from each part*

PART - A

1 a.	With the help of a neat diagram, explain Broad cast television networks.	8
b.	Explain various network types associated with communication modes.	6
c.	Explain different QOS parameters associated with circuit switched network.	6
2 a.	Explain in brief about the types of text. Used for document.	6
b.	Explain the Principle applied for digitization of document with the help of neat diagram.	8
c.	With the help of neat diagram, Describe color derivation principles.	6
3 a.	Differentiate between luminance and chrominance components.	4
b.	Explain with a suitable diagram the baseband spectrum of color TV signaled in PAL system.	4
c.	Explain the following file formats : i) SIF ii) CIF iii) QCIF	12
4 a.	Explain the principle of operation of LZW compression algorithm and how this is different from LZ algorithm.	12
b.	Explain the various stages of JPEG decoder with the aid of neat schematic diagram.	8

PART - B

5 a.	With the aid of schematic diagram explain the operation of basic ADPCM signal encoder and decoder.	10
b.	With an implementation schematic, explain the basic principle of MPEG - 4 video encoder.	10
6 a.	With aid of diagram, describe the role of each of five layers of TCP /IP reference model.	8
b.	Explain two party call setup procedure using H. 323 gate keeper.	6
c.	Explain the process of interworking unit using H. 323 gateway.	6
7 a.	Explain the role of security gateway and proxy server with the help of neat schematic diagram.	8
b.	With the help of neat diagram, explain telephone company architecture and cable TV company architectures of Movie / Video on demand.	12
8 a.	Explain the following terms related to web; i) HTML ii) HTTP iii) Hyper text iv) Hyper Link.	8
b.	Give an example of URL that uses file method and explain one of its uses.	6
c.	Explain the various principles of HTTP standard application protocol with the aid of a neat diagram.	6

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