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Question Paper Code: 55Q05

M.E. DEGREE EXAMINATION, APRIL 2019

Elective

Communication Systems

15PCM505 - DATA COMPRESSION

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 20 = 100 Marks)

1. (a) Explain in detail about compression principles and draw the block diagram of source encoder and destination encoder. CO1- U (10)
Or
(b) Explain in detail about the fundamental concepts in video. CO1- U (20)
 2. (a) Explain Shannon fano coding with examples. CO2-U (20)
Or
(b) Explain in detail about Dynamic Huffman coding with examples. CO2-U (20)
 3. (a) Explain DPCM & Three order predictive DPCM with block diagram. CO3- U (20)
Or
(b) Explain in detail about Basic sub band coding. CO3-U (20)
 4. (a) Explain in detail about JPEG 2000 standards and its algorithm. CO4- U (20)
Or
(b) Explain in detail about JBIG standards. CO4- U (20)
 5. (a) Explain in detail about MPEG – 1 and 2 – MPEG Video Coding. CO5-Ana (20)
Or
(b) Explain in detail about video compression techniques and standards. CO5-Ana (20)
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