

(3Hours)

[Total Marks: 80]

N.B.: (1) QuestionNo.1 is Compulsory.

(2) Attempt any three out of remaining five questions.

(3) Each Question carries 20 marks.

Q1) Attempt any four questions. [20M]

a) Explain the applications of Histograms? [5M]

b) Explain Image Restoration Model? [5M]

c) What do you mean by redundancy in image? [5M]

d) Explain the properties of DFT?[5M]

e) What are the types of Image compression technique? [5M]

Q2)

a) Explain the Digital Watermarking in detail? [10M]

b) Write short note on “Morphological Operations on Image” [10M]

Q3)

a) Write short note on “Statistical Compression Techniques” [10M]

b) Explain the Image restoration techniques? [10M]

Q4)

a) Write short note on “Haar Transform” [10M]

b) Explain the Histogram Processing Techniques in detail? [10M]

Q5)

a) Explain the structure of human eye? [10M]

b) Write short note on “Vector Quantization”. [10M]

Q6)Solve any two questions

a) Write short note on “Noise Model”. [10M]

b) Write short note on “KL Transform” [10M]

c) Explain Huffman Coding with suitable example? [10M]

\*\*\*\*\*