M 25894

Reg. No. : .....

Name : .....

VIII Semester B.Tech. Degree (Supplementary – Including Part Time) Examination, October 2014

(2007 Admn. onwards)

PT 2K6/2K6 EC 805(B) : DIGITAL IMAGE PROCESSING

Time : 3 Hours Max. Marks : 100

Instructions : *Answer **all** questions in Part **A**.*
*Answer **one** question from **each** module in Part **B**.*

PART – A

I. a) Draw the block diagram of an image processing and analysis scheme. **5**

b) Define perspective projection. **5**

c) Differentiate between intensity and brightness. **5**

d) What are the different image enhancement techniques ? **5**

e) Explain mathematical model of a degraded image. **5**

f) Define image segmentation. **5**

g) Explain image compression. **5**

h) Describe Huffman coding. **5**

(5×8=40)

PART – B

II. a) Describe image digitization. **15**

OR

b) Describe the transformation of energy during image formation process. **15**

P.T.O.

III. a) Explain histogram stretching. 15

OR

b) Describe minimum – mean square error restoration for designing filter. 15

IV. a) Derive the expression for optimum threshold for gray level thresholding. 15

OR

b) Describe Region Growing Algorithm. 15

V. a) Describe transform domain compression. 15

OR

b) Describe JPEG Encoding scheme. 15

(15×4=60)
