Paper / Subject Code: 70654 / Elective I : Image Processing

June 12, 2024 10:30 am - 01:30 pm 1T00162 - M.C.A. (SEM-II) (Choice Based) (Two Year Course)
(R-2020-21) / 70654 - Elective I : Image Processing   QP CODE: 10055665

Time: 3 Hours   **Max. Marks: 80**

N.B.:   1) Question No.1 is **compulsory.**
      2) Attempt any **three** from the remaining **five** questions.
      3) Figures to the right indicate full marks

Q.1   Write a short note on any four   **20**

        a) Vector quantization
        b) Inverse Filtering
        c) Digital Camera working principles Brightness
        d) Properties of 2-D DFT
        e) Homomorphic filter.

Q.2   **10**
 a) Describe Image compression standards- JPEG & MPEG.

                                                        10
b) Explain Hough Transform in detail.
Q.3   **10**
a) What is meant by Discrete Cosine Transform? Explain .

                                                        10
b) Describe image averaging Spatial filtering- smoothing filters?
Q.4   **10**
a) Explain Image restoration Model in detail.

                                                        10
b) What is meant by Handwritten and Printed Character Recognition ? Explain.
Q.5

a) Explain Thresholding Region based segmentation Chain codes in detail.

b) Describe Image restoration Model in detail.

Q.6   **10**
a) Discuss about classification of image compression schemes

                                                        10
b) Explain Vehicle Number Plate Detection and Recognition techniques

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