BB-586

M. Tech. EXAMINATION, May 2017

(Second Semester)

(Main & Re-appear)

(CSE)

CSE-556-B

DIGITAL IMAGE ANALYSIS

Time : 3 *Hours*]   [*Maximum Marks :* 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. Answer to the point.

Unit I

1. List and explain in brief the basic steps for digital image processing. **15**

2. Explain the RGB Colour Model in detail. Compare RGB Colour model with CMY Colour Model. **15**

Unit II

3. What is Image Filtering ? Explain the Homomorphic filtering. **15**

4. Explain the 2-D DFT and its application to iamge processing. **15**

Unit III

5. Explain the edge/boundary detection methods. **15**

6. What is digital image compression ? Explain any *one* error free compression technique. **15**

Unit IV

7. List and explain the applications of digital image processing. **15**

8. Write notes on the following :
(a) Image Classification
(b) Image Recognition. **15**