UG EVEN SEMESTER (CBCS) EXAMINATION, SEPTEMBER - 2021

COMPUTER SCIENCE

8th Semester

COURSE NO. MCSCC - 801 / MS - 201

(Digital Image Processing)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

(Answer any five questions, taking one from each unit)

UNIT - I

1. Explain a generic Image processing system with block diagram 14
2. What do you mean by sampling and quantizitation. 14

UNIT - II

3. Explain point processing Image enhancement techniques. 14
4. Explain Image enhancement techniques in special domain. 14

UNIT - III

5. What is the difference between image enhancement and image restoration? Explain image restoration model. 14
6. Explain forward DFT and Inverse DFT with DFT properties. 14

UNIT - IV

7. Explain three main types of data redundancies. 14
8. Explain the Image compression models for loss less and lossy compression. 14

UNIT - V

9. Explain one colour model suitable for image display with colour monitor and image print with colour printer and their transformations. 14
10. a) Explain colour image smoothening and sharpening. 7

    b) explain image segmentation in RGB vector space. 7

2021/EVEN/18/24/MCS–801/MS-201/254