

Course : IV-B.Tech , I-SEM, Mid -I Branch : Information Technology(A)

**Subject:Image Processing Duration : 1:30hr**

**Date :11/09/2024 Max.Marks :25**

**Part –A**

**I. Answer all the below questions each question carries two marks 5\*2=10**

|  |  |  |
| --- | --- | --- |
| **BTL** | | **CO** |
| 1.What is the concept of grey levels? | **1** | **1** |
| 2.Define the following terms.  i.pixel  ii. Digital Image | **2** | **1** |
| 3.What is the colour image processing? | **1** | **1** |
| 4.What is the digital image processing? | **1** | **2** |
| 5.Explain in three different level processing in image processing | **2** | **3** |

**Part –B**

**II. Answer any three questions from the following** **5\*3=15**

|  |  |  |  |
| --- | --- | --- | --- |
| **BTL** | | **CO** | |
| 6.What is the fundamental methods of the Image processing? Explain with neat diagram?  **or**  7.Explain the property of 2D  i.DFT  ii.DCT | **5**  **2** | **1**  **1** | |
| 8.What is the image smoothing and sharpening?  **or**  9.Briefly explain about image enhancement. | **1**  **2** | **2**  **2** |
| 10.What is the Image Restoration Degradation model?  **OR**  11. Explain the relation between the pixels. | **1**  **2** | **2**  **2** | |

**SCHEME OF EVALUATION**

**Part –A**

| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| --- | --- | --- | --- |
| **1** | What is the concept of grey levels? | **2** | **2** |
| **2** | Define the following terms.  i.pixel  ii. Digital Image | **1**  **1** | **2** |
| **3** | What is the colour image processing? | **2** | **2** |
| **4** | What is the digital image processing? | **2** | **2** |
| **5** | Explain in three different level processing in image processing | **2** | **2** |

**Part –B**

| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| --- | --- | --- | --- |
| **6** | What is the fundamental methods of the Image processing? Explain with neat diagram? | **5** | **5** |
| **7** | Explian the property of 2D  i.DFT  ii.DCT | **2.5**  **2.5** | **5** |
| **8** | What is the image smoothing andsharpening? | **5** | **5** |
| **9** | Briefly explain about image enhancement. | **5** | **5** |
| **10** | What is the Image Restoration Degradation model? | **5** | **5** |
| **11** | Explain the relation between the pixels. | **5** | **5** |