

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

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

**Date :14/11/2024 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 region-oriented segmentation? | **1** | **4** |
| 2.Discuss the error free compression | **3** | **5** |
| 3.What is the threshold? | **1** | **3** |
| 4.Design the image segmentation | **5** | **4** |
| 5 Describe the fidelity criteria | **2** | **5** |

**Part –B**

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

|  |  |  |  |
| --- | --- | --- | --- |
| **BTL** | | **CO** | |
| 1. Explain the image compression models and source encoder and decoder.   or  7. What is the algebraic approach to restoration? | **2**  **1** | **5**  **3** | |
| 8.What is the image segmentation detection of discontinuities.  **or**  9.Discuss is the least mean square filters and constrained least squares restorations? | **1**  **2** | **4**  **3** |
| 10.What is the threshold? What are the types of threshold?  **or**  11. Describe the region-oriented segmentation | **1**  **2** | **3**  **4** | |

**SCHEME OF EVALUATION**

**Part –A**

| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| --- | --- | --- | --- |
| **1** | What is the region-oriented segmentation? | **2** | **2** |
| **2** | Discuss the error free compression? | **2** | **2** |
| **3** | What is the threshold? | **2** | **2** |
| **4** | Design the image segmentation | **2** | **2** |
| **5** | Describe the fidelity criteria? | **2** | **2** |

**Part –B**

| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| --- | --- | --- | --- |
| **6** | Explain the image compression models and source encoder and decoder. | **5** | **5** |
| **7** | What is the algebraic approach to restoration? | **5** | **5** |
| **8** | What is the image segmentation detection of discontinuities.? | **5** | **5** |
| **9** | Discuss is the least mean square filters and constrained least squares restorations. | **5** | **5** |
| **10** | What is the threshold? What are the types of threshold? | **5** | **5** |
| **11** | Describe the region-oriented segmentation. | **5** | **5** |