DIP ASSIGNMENT 2

1. Define image compression. Explain coding redundancy, spatial and temporal redundancy.

2. What is thresholding? Explain the role of noise in image thresholding.

3. What is the role of edges in improving global thresholding.Explain point, line and edge detection techniques.

4. Explain Marr-Hildreth edge detector in detail.

5. What are the three basic objectives of canny edge detector? Explain canny edge detection algorithm.

6. Explain how optimum global thresholding can be achieved by Otsu's method.

7. Using the Huffman code, decode the encoded string 0101000001010111110100.

8. What is meant by edge linking? Explain edge linking using local processing.

9. Explain image compression system with a neat diagram.

10. Explain point, line and edge detection techniques

11. Explain region based segmentation.

12. Define the following in detail

      i)   Multiple thresholds

      ii)   Variable thresholds