

- 5 b. Using the second derivative, develop a Laplacian mask for image sharpening. (06 Marks)
c. Explain in brief any point processing technique implemented in image processing. (04 Marks)
- 6 a. Discuss the characteristics of high boost filter for both frequency and spatial domain. Explain how high boost filtering increases the enhancement of the image. (10 Marks)
b. With the help of block diagram, explain homomorphic filters for image enhancement. (10 Marks)
- 7 a. Explain different image degradation models. (06 Marks)
b. Explain in brief, the inverse filtering approach and its limitations. Explain how the limitations can be overcome using Wiener filtering. (10 Marks)
c. What is an order statistics filter? Explain any one such filter. (04 Marks)
- 8 a. Explain the following color models:
i) RGB color model
ii) HSI color model (10 Marks)
b. Write steps involved in converting colors from HSI to RGB. (05 Marks)
c. Explain pseudo color image processing in brief. (05 Marks)

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