How low pass filtering can be used to enhance image in

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[Total No. of Printed Pages :2] Total No. of Questions :8] IT-832 **B.E. VIII Semester** Examination, June 2017 **Image Processing** (Elective - III) Time: Three Hours Maximum Marks: 70 Note: i) Attempt any five questions. ii) All question carries equal marks. Define sampling and quantization. Differentiate scalar and vector quantisers. Differentiate Binary image, grayscale image and colour image. Explain different elements of an image processing system. What is Discrete Fourier transform? Write properties of 2D-DFT. What is histogram? How histogram manipulation can be

used for image enhancement?

With suitable examples explain image arithmetic.

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frequency domain? b) Explain redundancy in images with a suitable classification of redundancy. What is Run length coding? Where is it suitable. 7 Differentiate lossy and lossless compression techniques, What is image segmentation? Give a classification of image segmentation techniques. What is image degradation? Explain the effect of diagonalisation on degradation. Explain the process of Polygonal Approximations using Minimum Perimeter Polygons. Differentiate Regional and Boundary descriptors. 7 8. Write short notes (any two): 14 Image Skeleton Median Filtering Hadamard transform

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