16/12/2024 CSE-AIML SEM-VI C SCHEME IMAGE & VP (DLOC II) QP CODE: 10068538

Duration: 3hrs Max Marks: 80 N.B.: (1) Question No 1 is Compulsory. (2) Attempt any three questions out of the remaining five. (3) All questions carry equal marks. (4) Assume suitable data, if required and state it clearly. Q.1 Write short notes on Run Length Coding Α В **Unitary Transform** C Digital video processing D Sampling and Quantization Q.2 What do you mean by point operations? Explain any three point A operations in detail [10] Explain in detail DFT and Inverse DFT В Q.3 A Explain Histogram Equalization. Equalize the following histogram. Plot the Input histogram, transformation function and output histogram for the 3bpp image given below: What do you understand by Image Compression? Differentiate [10] between Lossy and Lossless compression. Explain edge detection using Sobel and Prewitts mask [10] B Explain the split and merge technique in detail [10] Explain in detail Sharpening filters [10] Explain redundancy and fidelity criteria with respect to Image [10] Compression Write short notes on [20] Video File formats and applications В **Hadamard Transform** Image segmentation

Neighbourhood processing