

VI- SEM ETC/2019(W)
ETT-604 E(iv)-IMAGE & VIDEO PROCESSING

Full Marks: 80

Time: 3 Hours

Answer any FIVE questions including Q No. 1& 2
Figures in the right hand margin indicates marks

1.	Answer ALL the following: (a) Define pixels. (b) .What is the function of image sensors. (c) Define inter frame redundancy. (d) Define color slicing. (e) Define aliasing in image. (f) What is an image sampling? (g) What is digital image, write down its advantages (any two). (h) Define wavelet transform. (i) Define uncertainty principle of Fourier transform. (j) Define predictive coding.	2X10
2.	Answer any SIX questions: (a) Explain the concept of image sampling and quantization. (b) Discuss MPEG & H.26X video coding standards. (c) Explain the working of Subband filter banks for image coding. (d) Explain color image smoothing and sharpening. (e) Explain histogram modelling technique for equalization. (f) Explain image compression standards based on JPEG and JPEG-2000.	5X6
3.	Explain the components of a general purpose image processing system.	10
4.	Explain the frame classifications I, P&B and Group of picturers.	10
5.	Explain the working of Lossless predictive coding model with encoder and decoder.	10
6.	Discuss RGB & YUV color models with its advantages.	10
7.	Explain the concept of Video object detection and tracking methods.	10

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