2007-ANDHRA UNIVERSITY IV B.TECH II SEMESTER DEGREE EXAMINATION IMAGE PROCESSING (ELECTIVE-II) (COMPUTER SCIENCE AND ENGINEERING)

TIME-3HOUR MARKS-70

NOTE: SECTION A IS COMPULSORY.ATTEMPT ANY FOUR QUESTIONS FROM SECTION B.

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SECTION A [5*2=10 MARKS]

- 1. a) Define connectivity.
- b) Define sampling.
- c) Define quantization.
- d) Define noise of an image
- e) Define Walsh transform.

SECTION B [4*15=60 MARKS]

- 2. Give an Algorithm for FFT.
- 3. a) How do you Acquire an image Explain in detail.
- b) Define and explain image sliding and image stretching.
- 4. a) Define and explain lowpass filters in brief.
- b) Define and edge. Explain various edge enhancement filters.
- 5. a) Define prewitt filter.
- b) Explam in detail "Homomorphie filter".
- 6. a) Explain compression at the time of Image Transmission.
- b) Explain about standardization in image compression
- 7. a) Explain split and merge technique for segmentation.
- b) Define and explain thresholding.
- c) Explain segmentation by PIXEL based methods.
- 8. a) Define Erosion and Dilation.
- b) Explain how the morphological operations may be extended to gray scale images.
- c) Explain "Skeletanization" in detail.