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Roll No.		Total No. of	Pages : 02
Total No. of	Questions:18		
	B.Tech.(CSE) (2011 Onwards E-III)	(Sem.–7,8)	
	DIGITAL IMAGE PROCESSING		
	Subject Code : BTCS-91	5	
	M.Code:71907		
Timo · 3 Hrs		Max	Marke · 60

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Max. Marks: 60

INSTRUCTION TO CANDIDATES :

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks 1. each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students 2. has to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students 3. has to attempt any TWO questions.

SECTION-A

Explain briefly :

- 1) Define Digital image.
- ercon Differentiate photopic and scotopic vision 2)
- What is simultaneous contrast? 3)
- 4) Define Sampling and Quantization.
- Define arithmetic coding. 5)
- 6) What are the three types of discontinuity in digital image?
- 7) Give the relation for Rayleigh noise.
- What is maximum filter and minimum filter? 8)
- 9) What is global, Local and dynamic or adaptive threshold?
- 10) How effectiveness of quantization can be improved?



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SECTION-B

- 11) Specify the properties of 2D Fourier transform.
- 12) What is data redundancy? Explain three basic data redundancy.
- 13) Discuss the various image representation approaches.
- 14) Specify the objective of image enhancement technique. What is contrast stretching?
- 15) What is JPEG? What are the coding systems in JPEG?

SECTION-C

- 16) Explain the basic Elements of digital image processing.
- 17) What is Image restoration? Draw and explain the basic block diagram of the restoration process. Give two areas where restoration process can be applied.
- 18) What is Image Segmentation? Explain Edge Detection in details.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.