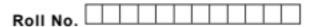


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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (CSE) (2012 to 2017 E-III) (Sem.-7) DIGITAL IMAGE PROCESSING Subject Code : BTCS-915 M.Code : 71907

Time : 3 Hrs.

Max. Marks : 60

### INSTRUCTIONS TO CANDIDATES :

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

## SECTION-A

### Explain briefly :

- 1. What are monochromatic images?
- 2. What is discretization of an image?
- 3. What is the difference between low pass filter and high pass filter?
- 4. Define Histogram.
- 5. State cause of degradation of image.
- 6. List down the limitations of Huffman coding.
- 7. What is inverse filtering?
- 8. What is psycho visual redundancy?
- 9. What are chain codes?
- 10. What is zooming and shrinking of digital image?



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#### SECTION-B

- 11. Explain the components of digital image processing.
- 12. Explain gray level transforms :
  - a) Image Negatives
  - b) Log Transform
- Describe basic formulation for noise model.
- 14. Explain CMY and CMYK color model.
- 15. Explain region splitting and merging in image segmentation.

# SECTION-C

- 16. Explain DWT. Also discuss its applications.
- 17. What is coding system in JPEG? Explain it.
- 18. Discuss boundary descriptors.

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.



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