

Roll No. ....

**23563**

**M. Tech 2nd Semester (Cyber Forensics  
and Information Security)  
Examination – May, 2018**

**STEGANOGRAPHY & DIGITAL WATERMARKING**

**Paper :MTCF-203**

*Time : Three Hours ]*

*[ Maximum Marks : 100*

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :** Attempt any *five* questions in all, selecting atleast *one* question from each Section & question No. 1 is *compulsory*. All questions carry equal marks.

1. Write a note on following : 5 × 4 = 20
- (a) Pure steganography
  - (b) Image Downgrading and covert channel
  - (c) Extracting Hidden Information
  - (d) Patchwork Algorithm

23563- 100 -(P-3)(Q-9)(18)

P. T. O.

## SECTION – I

2. What do you mean by Information Hiding ? Explain Technical and Linguistic steganography. Also list and explain applications of Information hiding. 20
3. What do you mean by Invisible communication ? Write and explain four examples of Invisible communication. 20

## SECTION– II

4. Explain General framework for spread spectrum stegnography in detail. 20
5. Explain statistical steganography technique in detail. 20

## SECTION – III

6. What do you mean by Steganalysis ? Describe its terminology and different types of attacks available to the steganalyst. 20
7. List and Explain various applications of water marking. Also describe different watermarking requirement and resultant design issues in detail. 20

## SECTION – IV

8. List the possible choices of a workspace in case of watermarking. Explain any *two* in detail. 20
9. What do you mean by Fingerprinting ? Explain its terminology and classification. Also write a note on watermarking Interoperability. 20

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