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**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

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
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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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