

Roll No.

23563

**M. Tech. 2nd Semester (Cyber Forensics
and Information Security)
Examination – May, 2016**

STEGANOGRAPHY AND DIGITAL WATERMAKING

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 five questions in all, selecting one question from each Section. Questions No. 1 is compulsory. All questions carry equal marks.

1. Explain the following

4 × 5 = 20

(a) Linguistic steganography

(b) Mimic functions

- (c) Watermarking principles
- (d) Conflict of copyright laws on the internet

SECTION – A

- 2. Explain various frameworks for secret communication. 20
- 3. (a) Differentiate between adaptive and non-adaptive algorithms by suitable examples. 10
- (b) Explain the method of information hiding in noisy data. 10

SECTION – B

- 4. Explain various transform domain techniques. 20
- 5. Explain the following : 20
 - (a) Automated generation of english texts
 - (b) Distortion of digital images

SECTION – C

- 6. Explain the following : 20
 - (a) Detecting hidden information
 - (b) Watermark removal software and benchmarking
- 7. Explain various requirements and algorithmic design issues for watermarking. 20

SECTION – D

- 8. Explain the following : 20
 - (a) Motion Vector Quantization
 - (b) Merging the Watermark and the Cover
- 9. Explain various fingerprinting schemes. 20