

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 o nternet

SECTION – A

2. Explain various framew for secret communication. 20

3. (a) Differentiate between adap and non-adaptive algorithms by suitable exan 10

(b) Explain the method of i tion hiding in noisy data. 10

SECTION – B

4. Explain various transform doma niques. 20

5. Explain the following : 20

(a) Automated generation of er exts

(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