

23563

M.Tech 2nd Semester Cyber Forensics &

Information Security Examination,

May-2017

**STENOGRAPHY AND DIGITAL WATERMARKING**

**Paper-MTCF-203**

*Time allowed : 3 hours]*

*[Maximum marks : 100*

*Note : Question no. 1 is compulsory. Attempt five questions in total, selecting one question from each section.*

1. Explain the following : 4×5=20
  - (a) Copyright Enforcement
  - (b) Spread spectrum and information hiding
  - (c) Extracting hidden information
  - (d) Signal Diminishment

**Section-A**

2. (a) Give some examples of Invisible Communication. 10  
(b) What do you mean by steganography ? Give its types and some applications. 10
3. Explain various framework for secret communication. 20

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**Section-B**

4. Explain various substitution systems and bitplane tools. 20
5. Explain the following :
  - (a) Statistical Steganography
  - (b) Distortion Techniques

**Section-C**

6. Explain the following : 20
  - (a) Disabling hidden information
  - (b) Watermarking applications
7. Explain performance evaluation and representation of watermarking system. 20

**Section-D**

8. Explain the following : 20
  - (a) The patchwork algorithm
  - (b) Image prefiltering
9. What is fingerprinting ? Give its classification and some examples. 20