

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