

23563

M. Tech. 2nd Semester
(Cyber Forensics and Information Security)
Examination, May–2015

STEGANOGRAPHY AND DIGITAL WATER MARKING

Paper–MTCF-203

Time allowed : 3 hours *[Maximum marks : 100]*

Note : *Attempt any five questions in total, selecting one question from each section and question No. 1 is compulsory.*

1. (a) What is Steganalysis. 20
- (b) What is information hiding ?
- (c) Name any two code generation techniques.
- (d) Define digital watermark.
- (e) Name any two digital watermarking techniques.
- (f) Define Laplace Filtering.
- (g) Define passive attack.
- (h) Name any two active attacks.
- (i) List any four applications of Steganographic techniques.
- (j) What is anonymity ?

Section–A

2. Explain the framework for secret communication. Discuss about the information hiding in noisy data. 20
3. Describe different aspects of security of steganography systems. 20

Section-B

4. Describe the technique of automated generation of English Text. 20
5. List various domain transform techniques and explain any one in detail. 20

Section-C

6. What is the basic principle of digital watermarking ? Explain. List various applications of digital watermarking techniques. 20
7. Discuss the issues of requirements of algorithmic design of watermarking techniques. Also discuss in brief the evolution of watermarking. 20

Section-D

8. Explain in detail the method of merging the watermark and the cover. 20
9. Write note on : 20
 - (i) Steganography Vs. Watermarking
 - (ii) Extension from still image to video.