Printed Pages: 2 NIT-071

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID : 2012281 Roll No.

B.TECH

Regular Theory Examination (Odd Sem - VII) 2016-17

IT IN FORENSIC SCIENCE

Time : 3 Hours *Max. Marks : 100*

SECTION - A

1. Attempt all parts. All parts carry equal marks. Write answer of each part in short (10×2=20)

a) Distinguish positive and negative identification in biometrics

b) State the characteristics of an authentication protocol

c) What do you mean linguistic steganography?

d) State the usage of secret key steganography

e) Differentiate adaptive and non - adaptive algorithms

f) Define robust steganography of active attacker

g) Mention few parallel attacks available to steganalyst

h) What do you mean by bitstream and fragile watermark?

i) State the use of fingerprint for traitor tracking

j) Mention few surveillance tools for future welfare

SECTION - B

Note : Attempt any 5 questions from this section (5×10=50)

2. How to identify, verify and enroll in biometric system?
3. Write about access control security services
4. Explain about mimic functions and automated generation of english text.
5. Illustrate the schematic description of steganography
6. How to detect, extract and disable hidden information?
7. Depict the decomposition and reconstruction of wavelet transform
8. Illustrate the general watermark recovery scheme and explain any watermarking application
9. Enumerate the rules of evidence in computer forensics environment

SECTION - C

Note : Attempt any 2 questions from this section (2×15=30)

1. Discuss any four common biometrics in detail
2. Elaborate the content of substitution systems and bit plane tools
3. Enumerate the theorem of discrete cosine and Mellin-fourier transformation