

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

**PAPER ID : 2756**

Roll No.

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**B. Tech.**

(SEM. VII) THEORY EXAMINATION 2011-12

**IT IN FORENSIC SCIENCE***Time : 3 Hours**Total Marks : 100***Note :-** (i) Attempt **all** questions.

(ii) All questions carry equal marks.

1. Attempt any **two** parts : **(10×2=20)**
- (a) (i) What do you understand by authentication ?  
Discuss various authentication techniques in brief.
- (ii) Discuss the use of biometrics for access control.
- (b) Give a list of various biometrics. Discuss their advantages and disadvantages.
- (c) What is the importance of Biometric ? Discuss the following in brief:
- (i) Biometric identification
- (ii) Biometric verification.

2. Attempt any **two** parts : **(10×2=20)**
- (a) Staganography useful in enforcement of copy rights. Give argument in favour or against the statement.
- (b) What is Information Hiding ? What is the importance of it ? Explain the following :
- (i) Linguistic steganography
- (ii) Technical steganography.
- (c) Write notes on information hiding in written texts.
3. Attempt any **two** parts : **(10×2=20)**
- (a) Write notes on Bit plane tools.
- (b) Discuss cover generation techniques in detail.
- (c) What do you understand by Steganalysis ? Describe.
4. Attempt any **two** parts : **(10×2=20)**
- (a) What is watermarking ? Describe various watermarking application in detail.
- (b) Discuss evaluation criteria of watermarking systems.
- (c) Write a short note on the following :
- (i) Discrete Cosine Transformation
- (ii) Mellin-Fourier Transformation.
5. Write short notes on any **two** of the following : **(10×2=20)**
- (a) Dimensions of cyber crimes
- (b) Computer forensics
- (c) Surveillance tools.