

Roll No. ....

**23565**

**M. Tech. 2nd Semester (Cyber  
Forensics & Information Security)**

**Examination – May, 2016**

**MULTIMEDIA SECURITY**

**Paper : MTCF-207**

***Time : Three Hours ] [ Maximum Marks : 100***

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :** Attempt only *five* questions, taking *one* question from each Section. Question No. 1 is *compulsory*. All questions carry equal marks.

1. Explain the following : 20
- (a) Security threats in multimedia encryption.
  - (b) Dirty paper codes.
  - (c) Video watermarking.
  - (d) Error correcting codes.

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**SECTION – A**

- 2. Explain various models of digital watermarking. 20
- 3. What is Block DCT-domain watermarking? Explain. 20

**SECTION – B**

- 4. (a) Explain Image watermarking. 10
- (b) Explain watermarking for 3D contents. 10
- 5. (a) What are various issues for media specific watermarking? 10
- (b) Differentiate between image watermarking & audio watermarking techniques. 10

**SECTION – C**

- 6. Explain a Buyer-Seller watermarking protocol. 20
- 7. Write short notes on : 20
  - (a) Extension of watermarking protocols.
  - (b) Protocols for secure computation.

**SECTION – D**

- 8. Write short notes on : 20
  - (a) New ways of making forgeries.
  - (b) Public key cryptography techniques.
- 9. What is digital forensics? Explain its scope. 20