

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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P. T. O.

SECTION – A

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

SECTION – B

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

SECTION – C

- 3. 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