

M.Tech. Computer Science & Engineering CBCS Pattern Semester-II  
**PCSS243 / PCSS24 (C) - Elective-II : Network Security & Cryptography**

P. Pages : 1

Time : Three Hours



**GUG/W/23/10998**

Max. Marks : 70

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- Notes :
1. Attempt **any five** questions.
  2. All questions carry equal marks.
  3. Due credit will be given to neatness and adequate dimensions.
  4. Assume suitable data wherever necessary.
  5. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) Explain different security attacks and security services. 7  
b) What is OSI security architecture. 7
2. a) What is steganography? Where it can be used? 7  
b) Explain DES algorithm. 7
3. a) Explain RSA Algorithm. 7  
b) Explain Diffie-Hellman key exchange algorithm. 7
4. a) Explain HMAC algorithm in detail. 7  
b) Explain Miller – Rabin algorithm. 7
5. a) Explain Kerberos. 7  
b) Explain public-key cryptosystem. 7
6. a) Explain secure electronic transaction. 7  
b) Discuss in detail C-MAC Algorithm. 7
7. a) Discuss briefly about pretty good privacy. 7  
b) Explain multipurpose internet mail extension. 7
8. a) Explain elliptic curve arithmetic. 7  
b) Explain about viruses in detail. 7

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