Code.No: RR410504　　　　　　　　RR　　　　　　　　SET-1

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
NETWORK SECURITY AND CRYPTOGRAPHY
(COMPUTER SCIENCE AND ENGINEERING)

Time: 3hours　　　　　　　　　　　　　　　　　　　**Max.Marks:80**

Answer any FIVE questions
All questions carry equal marks

- - -

1. a)　Write short notes on:
　　　i)　　Play fair cipher
　　　ii)　　Hill cipher
　b)　Explain various components of symmetric cipher model　　　　[8+8]

2. 　Discuss in detail about S-DES (Simple – DES) algorithm.　　　　[16]

3. Demonstrate that Blowfish decryption is inverse of Blowfish Encryption.　　[16]

4. 　Write short notes on:
　　a)　　Random Number Generation.
　　b)　　Public Key Cryptography.　　　　　　　　　　　　　　[8+8]

5. a)　State and prove Fermat's Theorem.
　b)　State and explain Euler's Theorem.　　　　　　　　　　　[8+8]

6. a)　What is hash function? List the requirements for a Hash function.
　b)　Explain DSS (Digital Signature Standard) algorithm.　　　　[8+8]

7. a)　Write short notes on electronic mail services.
　b)　What are the services provided by IP security?　　　　　　[8+8]

8. 　Write short notes on:
　　a)　　Trapdoor.
　　b)　　Logic Bomb
　　c)　　Viruses.
　　d)　　Trojan Horse.　　　　　　　　　　　　　　　　　[4+4+4+4]

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Code.No: RR410504

RR

SET-2

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
NETWORK SECURITY AND CRYPTOGRAPHY
(COMPUTER SCIENCE AND ENGINEERING)

Time: 3hours   **Max.Marks:80**

Answer any FIVE questions
All questions carry equal marks
- - -

1.   Demonstrate that Blowfish decryption is inverse of Blowfish Encryption.   [16]

2.   Write short notes on:
   a)   Random Number Generation.
   b)   Public Key Cryptography.   [8+8]

3. a)   State and prove Fermat's Theorem.
   b)   State and explain Euler's Theorem.   [8+8]

4. a)   What is hash function? List the requirements for a Hash function.
   b)   Explain DSS (Digital Signature Standard) algorithm.   [8+8]

5. a)   Write short notes on electronic mail services.
   b)   What are the services provided by IP security?   [8+8]

6.   Write short notes on:
   a)   Trapdoor.
   b)   Logic Bomb
   c)   Viruses.
   d)   Trojan Horse.   [4+4+4+4]

7. a)   Write short notes on:
   i)   Play fair cipher
   ii)   Hill cipher
   b)   Explain various components of symmetric cipher model   [8+8]

8.   Discuss in detail about S-DES (Simple – DES) algorithm.   [16]

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Code.No: RR410504 | **RR** | SET-3

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
NETWORK SECURITY AND CRYPTOGRAPHY
(COMPUTER SCIENCE AND ENGINEERING)

Time: 3hours **Max.Marks:80**

Answer any FIVE questions
All questions carry equal marks

- - -

1. a) State and prove Fermat's Theorem.
   b) State and explain Euler's Theorem. [8+8]

2. a) What is hash function? List the requirements for a Hash function.
   b) Explain DSS (Digital Signature Standard) algorithm. [8+8]

3. a) Write short notes on electronic mail services.
   b) What are the services provided by IP security? [8+8]

4. Write short notes on:
   a) Trapdoor.
   b) Logic Bomb
   c) Viruses.
   d) Trojan Horse. [4+4+4+4]

5. a) Write short notes on:
   i) Play fair cipher
   ii) Hill cipher
   b) Explain various components of symmetric cipher model [8+8]

6. Discuss in detail about S-DES (Simple – DES) algorithm. [16]

7. Demonstrate that Blowfish decryption is inverse of Blowfish Encryption. [16]

8. Write short notes on:
   a) Random Number Generation.
   b) Public Key Cryptography. [8+8]

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Code.No: RR410504   **RR**   **SET-4**

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
NETWORK SECURITY AND CRYPTOGRAPHY
(COMPUTER SCIENCE AND ENGINEERING)

Time: 3hours   **Max.Marks:80**

Answer any FIVE questions
All questions carry equal marks

- - -

1. a) Write short notes on electronic mail services.
   b) What are the services provided by IP security?   [8+8]

2.   Write short notes on:
      a)   Trapdoor.
      b)   Logic Bomb
      c)   Viruses.
      d)   Trojan Horse.   [4+4+4+4]

3. a) Write short notes on:
      i)   Play fair cipher
      ii)   Hill cipher
   b) Explain various components of symmetric cipher model   [8+8]

4.   Discuss in detail about S-DES (Simple – DES) algorithm.   [16]

5.   Demonstrate that Blowfish decryption is inverse of Blowfish Encryption.   [16]

6.   Write short notes on:
      a)   Random Number Generation.
      b)   Public Key Cryptography.   [8+8]

7. a) State and prove Fermat's Theorem.
   b) State and explain Euler's Theorem.   [8+8]

8. a) What is hash function? List the requirements for a Hash function.
   b) Explain DSS (Digital Signature Standard) algorithm.   [8+8]

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