Code No: R05320504 **R05** **Set No. 2**

III B.Tech II Semester Examinations,December 2010
INFORMATION SECURITY
Computer Science And Engineering

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

Answer any FIVE Questions
All Questions carry equal marks

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1. (a) Explain the basic functions of a language translator.
   (b) Write a detailed notes on NFA and DFA. [8+8]
2. (a) Discuss the scope of ESP encryption and authentication in both IPV4 and IPV6?
   (b) Explain about transport adjacency and transport tunnel bundle? [8+8]
3. (a) What are the common conflicts that can be encountered in shift - reduce parser.
   (b) Construct SLR parsing table for the following grammar.
   $R \rightarrow R\,'|'\,R \mid RR \mid R^* \mid (R) \mid a \mid b$ [8+8]
4. (a) Draw the diagrams showing the relative location of security facilities in TCP/IP protocol stack? Discuss the advantages of each?
   (b) What is SSL session? Can a session be shared among multiple connections? What are the parameters that define a session state? [8+8]
5. (a) How can node reduction optimization be done.
   (b) Write about loops in matrix representation. [8+8]
6. (a) Discuss in detail SNMPV1 community facility?
   (b) Explain Digital Immune System with a neat diagram. [8+8]
7. (a) Illustrate clearly and explain how Cipher Feedback mode performs encryption and decryption.
   (b) Write about Message authentication:
      i. Using Conventional Encryption
      ii. Without Message Encryption. [8+8]
8. (a) Explain how the session key generation is crucial in PGP and list the various algorithms used to generate the session key.
   (b) Compare and contrast the way the certificates are handled in PGP and S/MIME. [8+8]

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Code No: R05320504 **R05** **Set No. 4**

III B.Tech II Semester Examinations,December 2010
INFORMATION SECURITY
Computer Science And Engineering

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

Answer any FIVE Questions
All Questions carry equal marks

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1. (a) Discuss in detail SNMPV1 community facility?
   (b) Explain Digital Immune System with a neat diagram. [8+8]
2. (a) How can node reduction optimization be done.
   (b) Write about loops in matrix representation. [8+8]
3. (a) What are the common conflicts that can be encountered in shift - reduce parser.
   (b) Construct SLR parsing table for the following grammar.
   $R \rightarrow R'|' R \ |RR \ |R^* \ |(R) \ |a \ |b$ [8+8]
4. (a) Explain how the session key generation is crucial in PGP and list the various algorithms used to generate the session key.
   (b) Compare and contrast the way the certificates are handled in PGP and S/MIME. [8+8]
5. (a) Discuss the scope of ESP encryption and authentication in both IPV4 and IPV6?
   (b) Explain about transport adjacency and transport tunnel bundle? [8+8]
6. (a) Illustrate clearly and explain how Cipher Feedback mode performs encryption and decryption.
   (b) Write about Message authentication:
      i. Using Conventional Encryption
      ii. Without Message Encryption. [8+8]
7. (a) Explain the basic functions of a language translator.
   (b) Write a detailed notes on NFA and DFA. [8+8]
8. (a) Draw the diagrams showing the relative location of security facilities in TCP/IP protocol stack? Discuss the advantages of each?
   (b) What is SSL session? Can a session be shared among multiple connections? What are the parameters that define a session state? [8+8]

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Code No: R05320504 **R05** **Set No. 1**

III B.Tech II Semester Examinations,December 2010
INFORMATION SECURITY
Computer Science And Engineering

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

Answer any FIVE Questions
All Questions carry equal marks

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1. (a) How can node reduction optimization be done.
   (b) Write about loops in matrix representation. [8+8]
2. (a) Explain the basic functions of a language translator.
   (b) Write a detailed notes on NFA and DFA. [8+8]
3. (a) Discuss in detail SNMPV1 community facility?
   (b) Explain Digital Immune System with a neat diagram. [8+8]
4. (a) Illustrate clearly and explain how Cipher Feedback mode performs encryption and decryption.
   (b) Write about Message authentication:
      i. Using Conventional Encryption
      ii. Without Message Encryption. [8+8]
5. (a) What are the common conflicts that can be encountered in shift - reduce parser.
   (b) Construct SLR parsing table for the following grammar.
   $R \rightarrow R\,'|'\,R \;|RR\;|R^*\;|(R)\;|a\;|b$ [8+8]
6. (a) Explain how the session key generation is crucial in PGP and list the various algorithms used to generate the session key.
   (b) Compare and contrast the way the certificates are handled in PGP and S/MIME. [8+8]
7. (a) Draw the diagrams showing the relative location of security facilities in TCP/IP protocol stack? Discuss the advantages of each?
   (b) What is SSL session? Can a session be shared among multiple connections? What are the parameters that define a session state? [8+8]
8. (a) Discuss the scope of ESP encryption and authentication in both IPV4 and IPV6?
   (b) Explain about transport adjacency and transport tunnel bundle? [8+8]

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Code No: R05320504 **R05** **Set No. 3**

III B.Tech II Semester Examinations,December 2010
INFORMATION SECURITY
Computer Science And Engineering

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

Answer any FIVE Questions
All Questions carry equal marks

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1. (a) How can node reduction optimization be done.
   (b) Write about loops in matrix representation. [8+8]
2. (a) Explain the basic functions of a language translator.
   (b) Write a detailed notes on NFA and DFA. [8+8]
3. (a) Explain how the session key generation is crucial in PGP and list the various algorithms used to generate the session key.
   (b) Compare and contrast the way the certificates are handled in PGP and S/MIME. [8+8]
4. (a) Discuss the scope of ESP encryption and authentication in both IPV4 and IPV6?
   (b) Explain about transport adjacency and transport tunnel bundle? [8+8]
5. (a) Discuss in detail SNMPV1 community facility?
   (b) Explain Digital Immune System with a neat diagram. [8+8]
6. (a) Illustrate clearly and explain how Cipher Feedback mode performs encryption and decryption.
   (b) Write about Message authentication:
      i. Using Conventional Encryption
      ii. Without Message Encryption. [8+8]
7. (a) What are the common conflicts that can be encountered in shift - reduce parser.
   (b) Construct SLR parsing table for the following grammar.
   $R \rightarrow R\,'|'\,R \mid RR \mid R^* \mid (R) \mid a \mid b$ [8+8]
8. (a) Draw the diagrams showing the relative location of security facilities in TCP/IP protocol stack? Discuss the advantages of each?
   (b) What is SSL session? Can a session be shared among multiple connections? What are the parameters that define a session state? [8+8]

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