

F 3244

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Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, DECEMBER 2012

Eighth Semester

Branch : Computer Science and Engineering / Information Technology

SECURITY IN COMPUTING (RT)

(Supplementary/Mercy Chance)

Time : Three Hours

Maximum : 100 Marks

Part A

*Answer all questions.
Each question carries 4 marks.*

1. What is Cryptography ?
2. Explain statistical database security.
3. What are the important features of modern symmetric key algorithms ?
4. Explain Hacker.
5. Describe the protective mechanisms adopted for OS security.
6. Write briefly on Electronic mail security.
7. Define Authentication.
8. Explain the need for Application Security.
9. What are the mechanisms used for providing Network Security ?
10. Discuss the security issues of databases.

(10 × 4 = 40 marks)

Part B

*Answer all the questions.
Each question carries 12 marks.*

11. Explain the different intrusion techniques in detail.

Or

12. Explain the different attacks on networks. Discuss the different security mechanisms adopted for providing network security.
13. Discuss briefly the security features for authentication, access control and remote execution in UNIX.

Or

14. Explain the authentication mechanisms adopted for OS security.

Turn over

15. (a) Explain the need for Cryptography. Explain the different techniques involved in encryption and decryption.

(6 marks)

(b) Write a note on Digital Signature.

(6 marks)

Or

16. Explain Diffie-Helmer key exchange algorithm in detail.

17. Discuss the security mechanisms used in JAVA platform.

Or

18. Explain, with a neat figure, IP security, architecture.

19. (a) Explain the relevance of database security.

(6 marks)

(b) Define SQL Security.

(6 marks)

Or

20. Explain, in detail, how MAC helps in providing multi-level security.

[5 × 12 = 60 marks]