G 1158 (Pages : 2) Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, MAY 2012

Eighth Semester

Branch : Computer Science/Information Technology

SECURITY IN COMPUTING (RT)

(Regular/Supplementary)

Time : Three Hours Maximum : 100 Marks

Part A

Answer **all** *questions.*

Each question carries 4 *marks.*

1. Explain Digital Signature.
2. What are the different Authentication mechanisms adopted for OS security?
3. What are Firewalls?
4. What is a Virus?
5. Describe SQL Security.
6. Write the need for encryption and decryption.
7. What are the common intrusion techniques?
8. Write briefly on Applet security.
9. Illustrate the different official levels of computer security.
10. Write the need for database security.

(10 × 4 = 40 marks)

Part B

Answer **all** *questions.*

Each question carries 12 *marks.*

11. Explain the different security services and mechanism provided for network security.

(12 marks)

Or

12. Explain briefly :

(a) Trojan Horse. (b) Worm.

(6 + 6 = 12 marks)

Turn over

13. Discuss the need for OS security. Describe the protection mechanisms adopted for OS security.

(12 marks)

Or

14. Discuss the security features for authentication, access control and remote execution in Windows 2000.

(12 marks)

15. Explain DES algorithm. Discuss the strength of DES algorithm.

(12 marks)

Or

16. (a) Explain RSA algorithm. Compare RSA algorithm with DES algorithm.

(b) Explain the importance of Hash functions.

(6 + 6 = 12 marks)

17. Explain, with an example, E-mail security.

(12 marks)

Or

18. Explain briefly :

(a) Kerberos.

(b) S/MIME.

(6 + 6 = 12 marks)

19. Discuss the security issues for databases and how database security is provided.

(12 marks)

Or

20. (a) Write briefly on statistical database security.

(b) Explain how MAC provides multilevel security for databases.

(6 + 6 = 12 marks)

[5 × 12 = 60 marks]