G 7010 (Pages : 2) Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, APRIL 2011

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. Describe the relevance of network security.
2. Write a note on viruses.
3. Describe the official levels of computer security.
4. What are the protection mechanisms adopted for OS security ?
5. With figure, explain encryption and decryption mechanisms.
6. What do you mean by crypt analysis ?
7. Differentiate blue and application security.
8. Define applet security.
9. Describe SQL security.
10. Define Statistical database security.

(10 × 4 = 40 marks)

Part B

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

11. Explain the following :—

    (a) Hackers. (6 marks)

    (b) Crackers. (6 marks)

Or

12. What are the different services and mechanisms for providing network security ? (12 marks)

13. Explain access control mechanism. What do you mean by discretionary and mandatory access control ?

Or

14. What are the different authentication mechanisms associated with OS Security ?

Turn over

15. With an example, explain the Dittie-Hellman key exchange algorithm.

Or

16. Compare RSA and DFS algorithms. List the merits and demerits of each.

17. Explain the IP security architecture with relevant figures.

Or

18. With an example, explain the E-mail security.

19. What is the relevance of database security and explain statistical database security ?

Or

20. Explain how MAC provides multilevel security for database.

(5 × 12 = 60 marks)