



Reg. No. :

Name :

Eighth Semester B.Tech. Degree Examination, April/May 2012
(2008 Scheme)
08.803 : E-SECURITY (F)

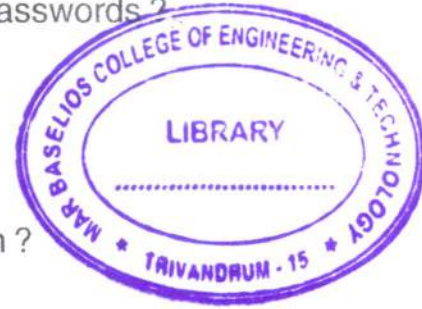
Time : 3 Hours

Max. Marks : 100

PART – A

(10×4=40 Marks)

1. Differentiate between various types of computer criminals based on their characteristics.
2. Differentiate the terms confusion and diffusion in the context of cryptanalysis.
3. Explain the security problem of incomplete mediation.
4. How are challenge-response systems used for one-time passwords?
5. Summarize the idea of a security kernel.
6. List any 4 requirements for DB security.
7. Define the term 'reconnaissance'.
8. What should be the contents of an Incident Response Plan?
9. Differentiate a patent and a copyright.
10. Explain how is aggregation and datamining used against personal privacy.



PART – B

Module – 1

11. a) Explain how the product of 2 relatively simple ciphers, such as a substitution and a transposition can achieve a high degree of security. 10
- b) State any 2 principles of security and explain them. 10
- OR
12. a) Each virus executes in a particular way and has a recognizable pattern. Explain the various patterns. 10
- b) Explain the idea of covert storage channels and covert timing channels. 10

**Module – 2**

13. a) Explain the approaches for protecting a file. 8
- b) Discuss the various models of security systems along with their access control policies. 12

OR

14. a) Explain how TCB is used to enforce security policy in a trusted OS. 10
- b) Discuss how security is enforced on a DB in view of sensitive data. 10

Module – 3

15. a) Compare and contrast the different types of firewall configurations. 20

OR

16. a) List the factors that should be considered when developing a security plan. 8
- b) Explain the legal issues relating to information security. 6
- c) Mention any 3 network vulnerabilities and their respective control methods. 6

