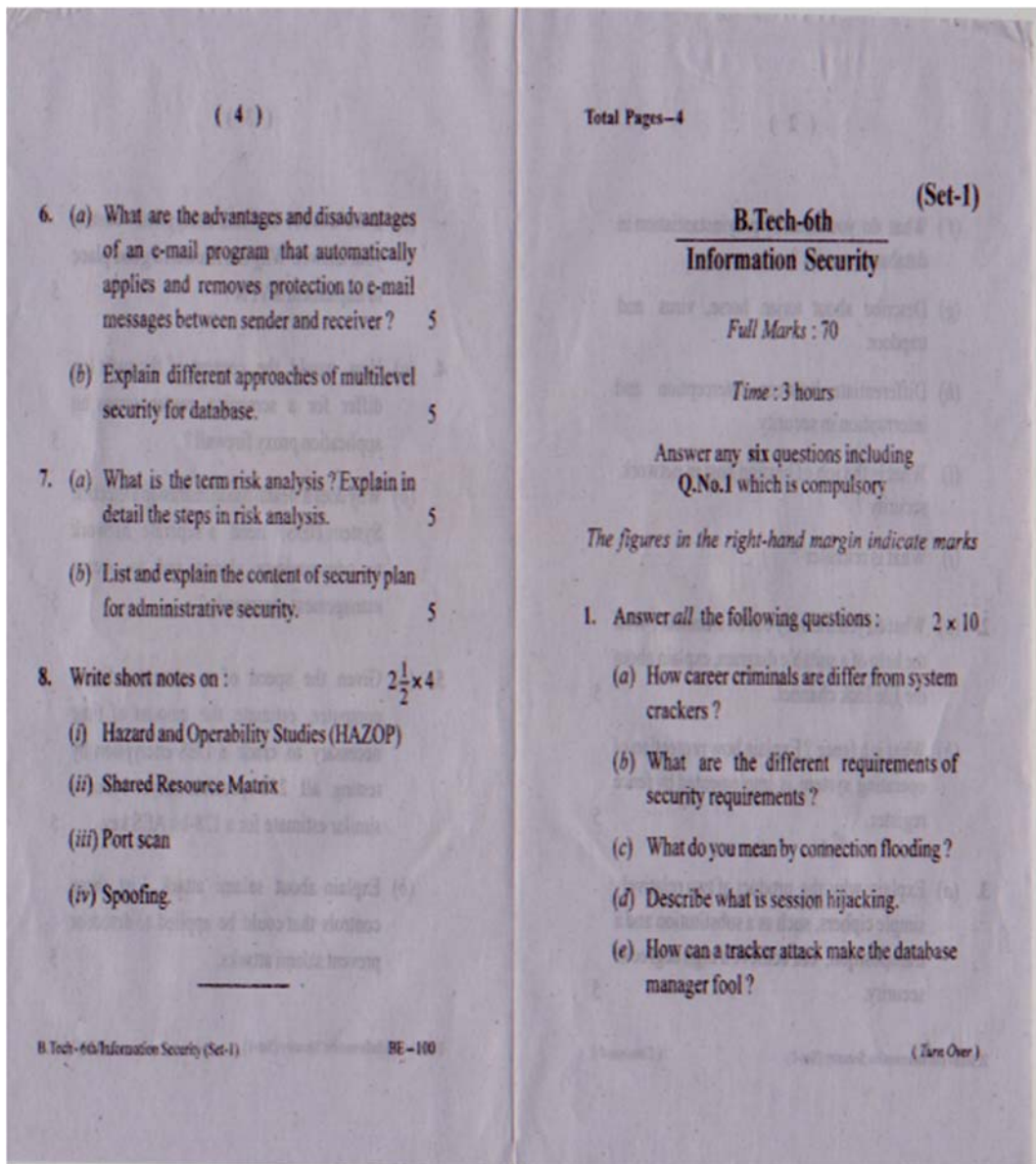


VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
& INFORMATION TECHNOLOGY
SESSION 2014-2015 (EVEN SEMESTER)



(2)

- (f) What do you mean by polyinstantiation in database security? 5
- (g) Describe about torjan horse, virus and trapdoor. 5
- (h) Differentiate between interception and interruption in security. 5
- (i) What is the job of bastion host in network security? 5
- (j) What is remainder? 5
2. (a) What do you mean by covert channels? With the help of a suitable diagram, explain about the file lock channel. 5
- (b) What is a fence? Explain how protection of operating system is implemented by fence register. 5
3. (a) Explain why the product of two relatively simple ciphers, such as a substitution and a transposition, can achieve a high degree of security. 5

(3)

- (b) Does a VPN use link encryption? Justify your answer. Why is a firewall a good place to implement a VPN? 5
4. (a) How would the content of the audit log differ for a screening router versus an application proxy firewall? 5
- (b) Why does a stealth mode Intrusion Detection System (IDS) need a separate network to communicate alarms and to accept management commands? 5
5. (a) Given the speed of a current ordinary computer, estimate the amount of time necessary to crack a DES encryption by testing all 256 possible keys. Make a similar estimate for a 128-bit AES key. 5
- (b) Explain about salami attack. List three controls that could be applied to detect or prevent salami attacks. 5

