

5th Semester Regular/Back Examination – 2015-16

COMPUTER SECURITY

BRANCH(S): MCA

Time: 3 Hours

Max Marks: 70

bputonline.com

Q.CODE:T679

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

Q1 Answer the following questions: **bputonline.com** (2 x 10)

- What is encryption and decryption?
- Write short notes on stream cipher and block cipher? Give the example of each one
- What is a DoS attack explain with example?
- Write short notes on Confusion and Diffusion.
- List two major security advantages of optical fiber over other transmission media
- Define Trusted Computing Base(TCB).
- Write short notes on One Time password.
- What is virus and logic bomb?
- What are the benefits of sensitivity lock with respect to database security?
- What do you mean by PGP and S/MIME?

Q2 Give Equation for calculation of Risk? Describe the term associated with risk. (10)

- Assets
- Threats
- Vulnerabilities

Q3 Draw the block diagram for DES cryptosystem. Explain the key generation process for different round. (10)

Q4 a) Describe Digital Signature mechanism with example (5)
b) Describe any two applications of public key cryptosystem. (5)

Q5 a) Discuss different types of threat in network (5)
b) List three factors that should be considered when developing a security plan. (5)

Q6 a) Write down the security features in Trusted operating system. (5)
b) What is firewall? Discuss different types of firewall in brief. (5)

Q7 a) What are the basic security requirements of a database? (5)
b) List the major reasons as to why computer crime is hard to prosecute. (5)

Q8 Write Short Notes (Any Two)

bputonline.com

- AES
- Intrusion Detection System
- Trapdoor
- Copyright & Patent.