

**Total number of printed pages – 4**      **B. Tech**  
**PECS 3406**

**Eighth Semester Examination – 2008**

**COMPUTER SECURITY**

**Full Marks – 70**

**Time : 3 Hours**

*Answer Question No. 1 which is compulsory and any **five** from the rest.*

*The figures in the right-hand margin indicate marks.*



1. Answer the following questions :      2 × 10
- (a) Alice meets Bob and says **BRXDUHP-BIULHDG** using Caesar cipher, what does she want to convey ?
- (b) The message **let us go for coffee** uses a simple transposition cipher with a key **24153**. Find the cipher text.

- (c) Differentiate between confidentiality and integrity.
- (d) Discuss the information security model
- (e) What is logic bomb ?
- (f) Define web spoofing.
- (g) What is session hijacking ?
- (h) Decrypt **HWKSWXSLGNTCG** using Vigenere cipher with key **Pascal**.
- (i) Distinguish between AES and DES encryption.
- (j) What is assurance in trusted **OS** ?
2. (a) Define RSA Cryptosystem. Hence for cipher text  $C = 10$ , public key  $e = 5$  and  $n = 35$ , find the plain text.      5
- (b) Discuss the security aspects of RSA.      5

**P.T.O.**

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**2**

**Contd.**

3. (a) What are the different possible computer crimes ? 5  
(b) How do the cyber criminal commit crimes? 5
4. (a) Discuss different cyber laws. How intellectual property law is enforced to protect copyright violation. 5  
(b) What are the differences between admissible and inadmissible evidence ? 5
5. (a) What is Firewall ? What types of firewalls are used and for what purpose ? 5  
(b) What DMZ stands for ? How does it work ? 5
6. (a) Distinguish between worms and viruses. 5  
(b) Discuss the buffer overflow attack in programs. 5

7. (a) State the steps for design of a trusted OS. 5  
(b) What is database security ? Hence discuss multilevel database security. 5
8. Write notes on : 5×2  
(a) Ethical issues in computer security  
(b) Intrusion detection system.

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