# Eighth Semester Examination - 2008

## **COMPUTER SECURITY**

Full Marks - 70

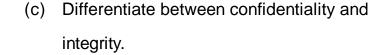
Time: 3 Hours

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 x10
  - (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.

P.T.O.



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

PEC	S 34	106 3 P.T	ī.O.	PEC	S 34	06 4 -C
	(b)	Discuss the buffer overflow attack programs.	in 5			
6.	(a)	Distinguish between worms and virus	ses. 5			
	(b)	What DMZ stands for ? How does work?	s it 5			
5.	(a)	What is Firewall? What types of firew are used and for what purpose?	alls 5			
	(b)	What are the differences betwee admissible and inadmissible evidence				
4.	(a)	Discuss different cyber laws. Hintellectual property law is enforced protect copyright violation.		8.	Writ (a) (b)	e notes on: 5×2  Ethical issues in computer security  Intrusion detection system.
	(b)	How do the cyber criminal commit crime	es? 5		(b)	What is database security ? Hence discuss multilevel database security. 5
3.	(a)	What are the different possible comportance ?	uter 5	7.	(a)	State the steps for design of a trusted OS. 5

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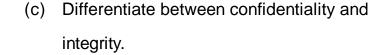
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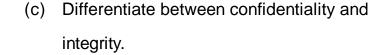
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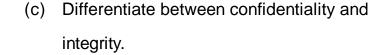
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