



BBB-2339

Seat No. _____

M. Sc. (CA & IT) (Sem. VIII) Examination

April / May - 2014

804 : Computer Security

Time : 3 Hours]

[Total Marks : 70

- 1 (a) Do as directed : 5
- (i) What does the mean of Computer Security ?
 - (ii) What do you mean by Vulnerability ?
 - (iii) Distinguish : Interception V/s. Interruption.
 - (iv) Distinguish : Crackers and Career Criminals.
 - (v) What do you mean by Confidentiality?
- (b) Explain the followings : (any two) 12
- (i) Threat, controls, attacks and vulnerability.
 - (ii) Explain types of controls against threats.
 - (iii) Discuss : Current research and future directions of cyber security.
- 2 (a) Do as directed : (any three) 6
- (i) Distinguish : Transient virus V/s. Resident virus.
 - (ii) List out various types of virus.
 - (iii) What do you mean by Password management.
 - (iv) What is intruder ?

- (b) Attempt the followings : (any two) **12**
- (i) What is malicious code ? Explain all types of malicious code.
 - (ii) What is Firewall ? Explain its types.
 - (iii) Explain intruder detection.
- 3** (a) Do as directed : (any five) **5**
- (i) Define : Encryption.
 - (ii) Define : Cryptanalysis.
 - (iii) Define : Cryptology.
 - (iv) Explain Simplest Encryption algorithm.
 - (v) What is Block Ciphers ?
 - (vi) What do you mean by breakable Encryption ?
- (b) Attempt the followings : (any two) **12**
- (i) What is AES algorithm ? Distinguish between AES and DES.
 - (ii) Explain key distribution problem in detail.
 - (iii) Explain Hash function.
- 4** (a) Do as directed : **6**
- (i) Define : Digital Signature, Digital Certificate.
 - (ii) Full form : PGP, MIME.
 - (iii) Which algorithm is used as Compression algorithm ?
- (b) Attempt the following : (any two) **12**
- (i) Explain Digital Signature Standard.
 - (ii) Explain PGP in detail.
 - (iii) Explain Secure Socket Layer.