### www.FirstRanker.com

www.FirstRanker.com

Roll No. Total No. of Pages: 02

Total No. of Questions: 09

BMCI (2014 & Onwards) (Sem.-5)
INFORMATION SECURITY

Subject Code: BMCI-505 Paper ID: [74107]

Time: 3 Hrs. Max. Marks: 60

## **INSTRUCTIONS TO CANDIDATES:**

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

### **SECTION-A**

# 1) Answer briefly:

- a) What are the components of an information system?
- b) Distinguish between policy and law.
- c) What is Intellectual Property? What is included in IP?
- d) Discuss PGP.
- e) What is meant by access control security?
- f) What is Steganography? How is it different from Cryptography?
- g) Encrypt the text "CHANGE IN PLAN MEET ME AT DAWN" using Caesar cipher.
- h) What is COBIT? What are its components?
- i) What is Data Encryption Standard?
- j) What is a Digital Signature? What is its use?



## **SECTION-B**

- 2) Briefly discuss the security classification of information.
- 3) Define a Threat. Discuss various types of threats in short.
- 4) Discuss Secure Sockets Layer protocol.
- 5) What is the significance of audit records in intrusion detection? What are the various fields of an audit record?
- 6) Discuss and differentiate between symmetric and asymmetric key cryptography.

## **SECTION-C**

- 7) What are the approaches used for information security? Explain in detail the Security Systems Development Life Cycle.
- 8) Define Firewall. What are its different types? Explain the working of a firewall in detail.
- 9) The values of public key and private key are (N, E) = (33, 3) and (N, D) = (33, 7). Use RSA algorithm to encrypt the word "TECHNOLOGY" and also show how the word can be decrypted from its encrypted form.

**2** M-74107 (S2)-1324