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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 :

1. 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.