

Roll No.

Total No. of Pages : 02

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DEP, BCA/BCA (Sem.-6)  
**INFORMATION SECURITY**

Subject Code : BSBC-604

M.Code : 75014

Date of Examination : 12-07-22

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 SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

**SECTION-A**

**1. Answer briefly :**

- a) What is non-repudiation in context to security?
- b) What is SSE-CMM?
- c) What is S/MIME?
- d) List various security laws.
- e) Explain the concept of role based security in an organization.
- f) Define VIRUS. List types of it in brief.
- g) Define masquerading.
- h) What is session key?
- i) Define firewall.
- j) Define steganography.

## SECTION-B

2. What are the different block cipher modes of operation of DES? List various strengths of DES.
3.
  - a) What is Authentication? Explain in detail about how password-based and addressed-based authentication services work.
  - b) Explain relationship between Digital Signature and Digital Certificate.
4. Explain the following with the help of examples :
  - a) SSL
  - b) SET
5. What is security assurance? Explain the concept of security assurance implementation in an organization. Use suitable assumption, if any.
6. What is Cryptography? Explain the key elements of a Cryptographic system. Write about the Conventional and Public-key cryptographic methods available.
7. What is the need of PGP? Explain the working of PGP with the help of an example.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**