

B.Sc. (IT) - III Sem-V  
**5BIT1 - Computer Forensic Science Paper - I**

P. Pages : 2

Time : Three Hours



**GUG/S/19/1443**

Max. Marks : 80

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- Notes :
1. All questions are compulsory and carry equal marks.
  2. Draw neat and labelled diagram and use supporting data wherever necessary.
  3. Avoid vague answers and write specific points/ answers related to questions.

- 1.** Either
- a) What are different types of Internet crimes? Explain in detail. **8**
  - b) Explain the following. **8**
    - i) Hacking.
    - ii) Cracking.

**OR**

- c) Explain the internet fraud in detail. **8**
- d) Explain the child pornography in detail. **8**

- 2.** Either
- a) Define Hash functions. Explain the security of Hash functions in detail. **8**
  - b) Explain the Digital signatures in detail. **8**

**OR**

- c) Explain Intrusion Detection & Password Management in detail. **8**
- d) Define viruses and mention the related Threat. Explain in detail. **8**

- 3.** Either
- a) Explain the following. **8**
    - i) Encryption.
    - ii) Decryption.

- b) What is steganography? Why it is used? Explain. **8**

**OR**

- c) What are principles for Block cipher Design? Explain in detail. **8**

- d) Explain the following. **8**
- i) Public key.
  - ii) Private key.

**4.** Either

- a) What is cyber law? Explain in detail. **8**
- b) Explain the IT Act in detail. Explain how they are implemented. **8**

**OR**

- c) Explain the following. **8**
  - i) Copyright.
  - ii) Patent.
- d) Explain in brief History of Information technology act – 2000. **8**

**5.** Solve all the questions.

- a) What is email tracing? Explain in detail. **4**
- b) Explain Firewall Design principles in detail. **4**
- c) Explain network security in detail. **4**
- d) Write short note on Trade Marks. **4**

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