

# C.U.SHAH UNIVERSITY

## Summer Examination - 2019

Subject Name: Cyber Security & Forensic Investigator

Subject Code: 5CS02WCY2

Branch: M.Sc.IT (WebTech)

Semester: 2

Date: 16/04/2019

Time: 02:30 To 05:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
  - (2) Instructions written on main answer book are strictly to be obeyed.
  - (3) Draw neat diagrams and figures (if necessary) at right places.
  - (4) Assume suitable data if needed.
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### SECTION-1

**Que-1 Attempt all the following short questions. [7]**

1. What is cybercrime?
2. Define cyber security.
3. Define web jacking.
4. List out 5P "Natizens Mantras" for online security.
5. Give the full form of MITM.
6. Define password.
7. What is the purpose of Cain & Abel software?

**Que-2 Attempt all questions. [14]**

1. What are various criteria for choosing a password? Explain hashed & clear text password in detail. [7]
2. Explain following cybercrimes in detail. [7]
  - A. Email Spoofing
  - B. Salami Attack
  - C. Phishing

**OR**

**Que-2 Attempt all questions. [14]**

1. Explain process and network information in detail. [5]
2. What is metadata? Explain its types in detail. [5]
3. Define cyber law. Why do we need cyber law? [4]

**Que-3 Attempt all questions. [14]**

1. Write a note on types of forensic tools. [7]
2. Explain various activities of cyber criminals. [7]

**OR**



- Que-3 Attempt all questions.** [14]
1. Explain various password cracking tools. [7]
  2. Explain weak, strong and random passwords in detail. [7]

**SECTION-2**

- Que-4 Attempt all the following short questions.** [7]
1. Define firewall.
  2. Define event.
  3. What is non-volatile memory?
  4. List out names of various online password attacks.
  5. What is prefetch file?
  6. Give the full form of DoS.
  7. Which type of information is stored in HKEY\_LOCAL\_MACHINE?

- Que-5 Attempt all questions.** [14]
1. Explain IDS with its types in detail. [7]
  2. Discuss various types of firewall. [7]

**OR**

- Que-5 Attempt all questions.** [14]
1. What is honeypot? Explain various categories of honeypot. [7]
  2. Explain DoS attack in detail. [7]

- Que-6 Attempt all questions.** [14]
1. What are the common network vulnerabilities? [5]
  2. Explain Message Digest function in detail. [5]
  3. Explain DNS poisoning attack in detail. [4]

**OR**

- Que-6 Attempt all questions.** [14]
1. Explain cache, cookie and history analysis. [5]
  2. How password cracker works? Explain with diagram. [5]
  3. What is network forensic? Explain in short. [4]

