

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
MCA., Summer 2017 – 18 Examination

Semester: 4
Subject Code: 05201284
Subject Name: Information Security and Cyber Forensics

Date: 26/05/2018
Time: 10:30am to 1:00pm
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Answer the following.**A. Write short notes.****(05)**

1. What is Trojan?
2. What is Adware?
3. What Is a Forensic Audit?
4. Explain Data hiding?
5. Give one example of virus.

B. Multiple choice type questions. (Each of 01 marks)**(10)**

1. In computer security _____ means that computer system assets can be modified only by authorized parities.
A) Confidentiality B) Integrity
C) Availability D) Authenticity
2. A _____ is a program that can infect other programs by modifying them, the modification includes a copy of the virus program, which can go on to infect other programs.
A) Worm B) Virus
C) Zombie D) Trap doors
3. Which of the following malicious program do not replicate automatically?
A) Trojan Horse B) Virus
C) Worm D) Zombie
4. Which is mobile forensic tool?
A) Trojan Horse B) Virus
C) Worm D) Zombie
5. _____ Port number using by HTTP service?
A) 80 B) 3636
C) 51 D) 3131
6. A _____ is anything that can cause harm.
A) vulnerability B) phish
C) threat D) spoof

7. The phrase _____ describes viruses, worms, Trojan horse attack applets, and attack scripts.

- A) malware
- B) spam
- C) phish
- D) virus

8. _____ monitor user activity on internet and transmit information in background to someone else.

- A) Adware
- B) Spyware
- C) None of these
- D) Malware

9. _____ is not antivirus.

- A) McAfee
- B) Quick heal
- C) None of these
- D) Norton

10. _____ is not forensic tool.

- A) PALM DD (PDD)
- B) ENCASE
- C) Tally
- D) PDA SEIZURE

Q.2 Answer the followings. (15)

- 1. Explain Legal challenges in computer forensics and data privacy issues. (02)
- 2. What is RootKit? (02)
- 3. Explain Memory protection in operating system. (02)
- 4. What is phishing? (03)
- 5. What is Encryption? (03)
- 6. What is Steganography? (03)

Q.3 Answer the following. (Any three) (15)

- 1. Explain First Three Principles [CIA] Model of information security.
- 2. Write the difference between Worms and viruses.
- 3. List the Forensic toolkits for cell phones. Explain any one toolkit.
- 4. Buffer Overflow Attack.

Q.4 Answer the following.

- A. What are technical challenges in cyber forensics? (05)
- B. Explain Lifecycle of Digital Forensics in detail. (10)

OR

- B. Write short note on wireless security protocols. (10)