RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College affiliated to University of Calcutta)

B.A./B.Sc. SIXTH SEMESTER EXAMINATION, JUNE 2022
THIRD YEAR (BATCH 2019-22)

Date : 15/06/2022   **COMPUTER SCIENCE (HONOURS)**
Time : 11.00 am – 1.00 pm   **Paper : DSE-3**   Full Marks : 50

Answer **any five** questions of the following: [5×10]

1. a) What is a Rootkit?

   b) Explain the following terms related to cyber crimes:

   i) Spamming

   ii) Salami technique

   iii) Hacking

   iv) Password sniffing

   c) Differentiate between computer Virus and Worms with two examples each. [3+4+3]

2. a) A friend sends an electronic Hallmark greeting card (e-card) to your work email. You need to click on the attachment to see the card. What should you do? List major risks associated with this scenario?

   b) How to prevent SQL Injection Attacks?

   c) What are the DDoS Attacks and explain how to protect from DDoS attacks. [3+4+3]

3. a) Who are the Cyber criminals and classify them?

   b) Explain the mechanism of how phishing works?

   c) Define foot printing. [3+4+3]

4. a) What is Penetration Testing?

   b) Discuss about one penetration testing method.

   c) What is Metasploit? [3+4+3]

5. a) How Mac changer works?

   b) Write down the steps of wifi hacking.

   c) What is IP spoofing? [3+4+3]

6. a) Discuss about Nmap.

   b) Discuss the steps of Proxy Chaining

   c) How IP Changer works? [3+4+3]

7. a) What is Crunch?

   b) Discuss the steps of md5 hash generator.

   c) What is the difference between Symmetric key Cryptography, Asymmetric key Cryptography?

   [3+4+3]

——————— × ———————