

ACTIVITY CODE:1903042031

(B.Sc.) 6th Semester (Honours) Examination, October 2020

Subject: Computer Science

Course ID: 61526

Course Code: SH/CSC/603/DSE-3 PR

Course Title: Information Security

Full Marks: 10

Time: 1 Hr.

The figures in the margin indicate full marks

Problem = 06 , Viva Voce=04

1. Answer *any one* of the following questions: (6)

- a) Demonstrate sending of a digitally signed document
- b) Use Burp proxy to capture and modify the message.
- c) Demonstrate the use of Network tools: ping, arp, netstat, whois, traceroute, ipconfig, ifconfig
- d) Demonstrate sending of a protected worksheet.
- e) Perform encryption and decryption of a Rail fence Cypher. Write a script for performing these operations.
- f) Use nmap/zenmap to analyze a remote machine
- g) Demonstrate use of steganography tools.
- h) Perform encryption and decryption of Caesar Cypher. Write a script for performing these operations.

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(B.Sc.) 6th Semester (Honours) Examination, October 2020



Subject: Computer Science

Course ID: 61526

Course Code: SH/CSC/603/DSE-3 PR

Course Title: Introduction to Data Science

Full Marks: 10

Time: 1 Hr.

The figures in the margin indicate full marks

Problem = 06 , Viva Voce=04

2. Answer *any one* of the following questions: (6)

- a) Use Git/Github software to create Github account. Also, create a repo using gethub.
- b) Write a program that prints: 'Hello world' to the screen.
- c) Write a function that returns the largest element in a list
- d) Implement linear search
- e) Write a function that computes the running total of in a list.
- f) Implement binary search.
- g) Implement matrices addition, Subtraction and multiplication.
- h) Write a function that tests whether a string is palindrome or not.

