

**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**



**B.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS**

**FOURTH SEMESTER – APRIL 2022**

**UCA 4604 – CYBER SECURITY**

Date: 23-06-2022

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

**PART – A**

**(10×2=20)**

**Answer ALL the Questions**

1. What is digital crime?
2. State the difference between virus and worm.
3. List any four password manager tools.
4. How to choose a good password?
5. Define symmetric cipher.
6. Differentiate stream cipher and block cipher.
7. List the steps for investigating internet crime.
8. List the types of DoS attack
9. What is Indian IT act 2000? (Unit 5)
10. How does computers used as target for cybercrimes?

**PART – B**

**(5×8=40)**

**Answer ALL the Questions**

11. Illustrate the tools and techniques used to commit cybercrimes.  
(OR)  
Explain the techniques used in cyber security.
12. Explain the steps we must take to create a new password securely to protect from the hackers.  
(OR)  
Describe the history of Internet
13. Describe the working technique of Hill cipher  
(OR)  
Give an example for monoalphabetic cipher and ceaser cipher and explain them.
14. How will you defend the DoS attacks?  
(OR)  
Discuss the various types of DoS attacks.
15. Write note on contaminants and destruction of data.  
(OR)  
Explain about incident response and its types.

**PART – C**

**(2×20=40)**

**Answer any TWO**

- 16 a. Explain the various kinds of cybercrime and explain them.  
b. Describe about the Password manager.
- 17 a. Explain in detail about the technique of DES with neat diagram.  
b. Elaborate on the investigation of Internet crime.
- 18 a. Discuss about the contemporary crimes.  
b. Describe about play fair cipher with example.

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