**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, December 2022**

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|  | **1BT1012** | Roll No. | Total Printed Pages: 1 |
| **1BT1012** |  |
| B. Tech. I Year I-Semester (Main/Back) End Semester Examination, December 2022  **(Cyber Security)** | |
| **BCSCCE1107 : Introduction to Cyber Security** | | | |

# Time: **3** Hours. Total Marks: **60**

Min. Passing Marks: **21**

Attempt **five** questions selecting one question from each Unit. There is internal choice from Unit I to Unit V. Marks of each question or its parts are indicated against each question / parts. Draw neat sketches wherever necessary to illustrate the answer. Assume missing data suitably (if any) and clearly indicate the same in the answer.

Use of following supporting material is permitted during examination for this subject.

# **1.--------------------------Nil--------------------** **2.------------------Nil-----------------------**

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|  |  | |  | | | |  | |
|  | | |  | | **UNIT-I (CO1)** | **Marks** | **Bloom Level** | |
| **Q.1** | | | **(a)** | | Explain information Security basic principles with suitable example. | **(6)** | Analyze | |
|  | | |  | |  |  |  | |
|  | | | **(b)** | | Explain integrity and its types in information Security. | **(6)** | Understand | |
|  | | |  | | **OR** |  |  | |
| **Q.2** | | | **(a)** | | Define Information Security and also explain why Information Security need comes? | **(6)** | Remember | |
|  | | |  | |  |  |  | |
|  | | | **(b)** | | Discuss cyber security principles with example. | **(6)** | Understand | |
|  | | |  | | **UNIT-II (CO2)** |  |  | |
| **Q.3** | | | **(a)** | | What is difference between Cryptography and steganography? | **(6)** | Analyze | |
|  | | |  | |  |  |  | |
|  | | | **(b)** | | What do you understand by Public Key and Private Key? | **(6)** | Understand | |
|  | | |  | | OR |  |  | |
| **Q.4** | | | **(a)** | | What do you understand by cryptography? Explain with suitable example. | **(6)** | Remember | |
|  | | |  | |  |  |  | |
|  | | | **(b)** | | Explain any four attacks on Computer System Security. | **(6)** | Analyze | |
|  | | |  | | **UNIT-III (CO3)** |  |  | |
| **Q.5** | | | **(a)** | | Differentiate between Symmetric and Asymmetric Encryption. | **(6)** | Understand | |
|  | | |  | |  |  |  | |
|  | | | **(b)** | | Differentiate between DSA and AES algorithm | **(6)** | Remember | |
|  | | |  | | OR |  |  | |
| **Q.6** | | | **(a)** | | Differentiate Spoofing and sniffing with example | **(6)** | Analyze | |
|  | | |  | |  |  |  | |
|  | | | **(b)** | | Explain the working of Data Standard Algorithm (DSA)? | **(6)** | Understand | |
|  | | |  | | **UNIT-IV (CO4)** |  |  | |
| **Q.7** | | | **(a)** | | Describe Malicious Code and Back Door with example. | **(6)** | Remember | |
|  | | |  | |  |  |  | |
|  | | | **(b)** | | Differentiate white, black and grey hat hacker with example. | **(6)** | Understand | |
|  | | |  | | OR |  |  | |
| **Q.8** | | | **(a)** | | How to Protect Against Malicious Code Attacks. Explain with example. | **(6)** | Apply | |
|  | | |  | |  |  |  | |
|  | | | **(b)** | | What is the difference between a DDoS attack and a DOS attack? | **(6)** | Understand | |
|  | | |  | | **UNIT V (CO5)** |  |  | |
| **Q.9** | | | **(a)** | | Explain Basics of authentication & Authorization. | **(6)** | Analyze | |
|  | | |  | |  |  |  | |
|  | | | **(b)** | | Write short note on authentication token. | **(6)** | Remember | |
|  | | |  | | OR |  |  | |
| **Q.10** | | | **(a)** | | What Is Certificate-Based Authentication? | **(6)** | Analyze | |
|  | | |  | |  |  |  | |
|  | | | **(b)** | | Write a short note on Extensible authentication protocols. | **(6)** | Understand | |