**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, November 2022**

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|  | **2BC3127** | Roll No. | Total Printed Pages: 1 |
| **2BC3127** |  |
| BCA II Year III-Semester (Back) End Semester Examination, November 2022  **(Gen. / Cloud)** | |
| **BCA03104 / BCT03104 : Information Security Fundamentals** | | | |

# 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** |
| **Q.1** | **(a)** | List the critical characteristics of information. | **(6)** |
|  |  |  |  |
|  | **(b)** | Give the meaning of “dumpster diving” with respect to information security. | **(6)** |
|  |  | **OR** |  |
| **Q.2** | **(a)** | What is intellectual property? | **(6)** |
|  |  |  |  |
|  | **(b)** | Define Symmetric Key Cryptography and Asymmetric Key Cryptography? | **(6)** |
|  |  | **UNIT-II (CO2)** |  |
| **Q.3** | **(a)** | Explain the different types of Intrusion Detection System (IDS) with their advantages and disadvantages. | **(6)** |
|  |  |  |  |
|  | **(b)** | Brief about the various cryptography tools | **(6)** |
|  |  | **OR** |  |
| **Q.4** | **(a)** | Generate public key and private key in case of RSA algorithm if two primes numbers giver is 5 and 11. p=5 and q=11. | **(6)** |
|  |  |  |  |
|  | **(b)** | Describe the kerberose system. | **(6)** |
|  |  | **UNIT-III (CO3)** |  |
| **Q.5** | **(a)** | What is Phishing? Define its techniques and methods. Explain Salami Attacks and its Techniques | **(6)** |
|  |  |  |  |
|  | **(b)** | What is secure electronic transaction and how it can be achieved? | **(6)** |
|  |  | **OR** |  |
| **Q.6** | **(a)** | Explain secure socket layer. | **(6)** |
|  |  |  |  |
|  | **(b)** | Define modern security standards? | **(6)** |
|  |  | **UNIT-IV (CO4)** |  |
| **Q.7** | **(a)** | Explain the need and types of firewalls. | **(6)** |
|  |  |  |  |
|  | **(b)** | What are the issues in information security and network security? How they can be solved? | **(6)** |
|  |  | **OR** |  |
| **Q.8** | **(a)** | Define Authentication, Availability, and Access Control? | **(6)** |
|  |  |  |  |
|  | **(b)** | Explain Infrastructure Security Levels Briefly? | **(6)** |
|  |  | **UNIT V (CO5)** |  |
| **Q.9** | **(a)** | Define Information Assets Ownership? | **(6)** |
|  |  |  |  |
|  | **(b)** | Define Audit and Accountability? Also Explain Configuration Management? | **(6)** |
|  |  | **OR** |  |
| **Q.10** | **(a)** | Explain cipher block chaining mode | **(6)** |
|  |  |  |  |
|  | **(b)** | Explain one time pad and why it is secure? | **(6)** |