**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, APRIL 2023**

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|  | **2BT4223** | Roll No. | Total Printed Pages: 1 |
| **2BT4223** |  |
| B. Tech. II Year IV-Semester (Main/Back) End Semester Examination, April 2023  **(Cyber Security)** | |
| **BCEECE4113: Security Audit & Risk Management** | | | |

# 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)** | What is Assurance? What are the broad categories where assurance is mandatory? | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | Can a java run on any machine? What is needed to run java on a computer? What are criteria for assessing audit? | **(6)** | **Knowledge** |
|  |  | **OR** |  |  |
| **Q.2** | **(a)** | List the guidelines on security aspects of EFT | **(6)** | **Knowledge** |
|  |  |  |  |  |
|  | **(b)** | Distinguish between Internal Audit and External Audit. | **(6)** | **Understanding** |
|  |  | **UNIT-II (CO2)** |  |  |
| **Q.3** | **(a)** | Explain Data and Resource Management. | **(6)** | **Knowledge** |
|  |  |  |  |  |
|  | **(b)** | What is the purpose of Data Flow Diagram? Write the rules for DFD | **(6)** | **Understanding** |
|  |  | **OR** |  |  |
| **Q.4** | **(a)** | Explain purpose of a Flowchart? Enlist the type of flowcharts. | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | Explain:  a) SQL Injection b) Improper Input Validation c) NULL Pointer Dereference | **(6)** | **Understanding** |
|  |  | **UNIT-III (CO3)** |  |  |
| **Q.5** | **(a)** | What is an audit program? Enlist the objectives of audit programs. | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | What are the 5 key areas of an IT audit? | **(6)** | **Knowledge** |
|  |  | **OR** |  |  |
| **Q.6** | **(a)** | Write a note on Mean Time Metrics | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | Write a note on COBIT 5 | **(6)** | **Knowledge** |
|  |  | **UNIT-IV (CO4)** |  |  |
| **Q.7** | **(a)** | What are the common e-commerce security issues? | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | What are the types Of Information Security Controls | **(6)** | **Knowledge** |
|  |  | **OR** |  |  |
| **Q.8** | **(a)** | What is the role of priorities in multithreading. What are its limitations? How do you set and get priority values for threads in Java. What are the data processors’ responsibilities set out by Article 28 of GDPR? | **(6)** | **Knowledge** |
|  |  |  |  |  |
|  | **(b)** | What are the reasons ERP systems are prone to cyber-attacks? | **(6)** | **Understanding** |
|  |  |  |  |  |
| **Q.9** | **(a)** | Explain the 5 cyber security risk assessment steps? | **(6)** | **Knowledge** |
|  |  |  |  |  |
|  | **(b)** | Write a note on Risk Management Process | **(6)** | **Understanding** |
|  |  | **OR** |  |  |
| **Q.10** | **(a)** | What is the role of simulation in risk modelling? | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | Explain the Cyber Risk Management Frameworks. | **(6)** | **Understanding** |