**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, November 2022**

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|  | **3BT5219** | Roll No. | Total Printed Pages: 2 |
| **3BT5219** |  |
| B. Tech. III Year V-Semester (Main/Back) End Semester Examination, November 2022  **(CC)** | |
| **BCC05101 : Ethical Hacking** | | | |

# 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)** | Discuss the process of malicious hacking. | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | Explain –  1] Enumeration 2] Trojan horse | **(6)** | **Analyzing** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.2** | **(a)** | Differentiate between white box and black box hacking. | **(6)** | **Differentiation** |
|  |  |  |  |  |
|  | **(b)** | Explain-  1] Footprinting 2] Scanning | **(6)** | **Remembering** |
|  |  |  |  |  |
|  |  | **UNIT-II (CO2)** |  |  |
|  |  |  |  |  |
| **Q.3** | **(a)** | Differentiate between DoS and DDos. | **(6)** | **Analyzing** |
|  |  |  |  |  |
|  | **(b)** | What do you understand by web servers and what are the requirements to make a system as server? | **(6)** | **Understanding** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.4** | **(a)** | How session hijacking works and what are requirements to stop the session hijacking? | **(6)** | **Evaluating** |
|  |  |  |  |  |
|  | **(b)** | What do you understand by sniffers and how it works? | **(6)** | **Understanding** |
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|  |  | **UNIT-III (CO3)** |  |  |
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| **Q.5** | **(a)** | Write down the Owasp top 5 and explain using some of the real life examples. | **(6)** | **Analyzing** |
|  |  |  |  |  |
|  | **(b)** | What do you understand by CVE and how it is different from Owasp? | **(6)** | **Understanding** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.6** | **(a)** | Explain the brute force technique and discuss the password cracking using brute force technique. | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | Differentiate between Dictionary attack and Rainbow attaches using real life examples. | **(6)** | **Analyzing** |
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|  |  | **UNIT-IV (CO4)** |  |  |
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| **Q.7** | **(a)** | What do you understand by SQL injection? Also discuss some mechanisms to prevent the same. | **(6)** | **Remembering** |
|  |  |  |  |  |
|  | **(b)** | How wireless networks can be hacked? Also write down some of the tools which can be used to hack wireless networks. | **(6)** | **Understanding** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.8** | **(a)** | Explain-  (i) Viruses (ii) Worms (iii) Types of firewalls | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | How physical security plays an important role in the field of information security? Explain using some of the examples. | **(6)** | **Designing** |
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|  |  | **UNIT V (CO5)** |  |  |
|  |  |  |  |  |
| **Q.9** | **(a)** | Why report writing is necessary for an organization and how it helps the organizations to keep them secure from hackers? | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | What is ISO 27000 series? Explain using some of the examples. | **(6)** | **Analyzing** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.10** | **(a)** | What do you understand by risk matrix? Also discuss severity rate. | **(6)** | **Remembering** |
|  |  |  |  |  |
|  | **(b)** | How vulnerability assessment is done using the cyber security tools? Also write some of the tools for the same. | **(6)** | **Evaluation** |