**POORNIMA UNIVERSITY, JAIPUR.**

**END SEMESTER EXAMINATION, November 2022**

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|  | **3BC5132** | Roll No. | Total Printed Pages: 2 |
| **3BC5132** |  |
| BCA III Year V-Semester (Main/Back) End Semester Examination, November 2022  **(Mobile)** | |
| **BCM05102 : 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 Hacking methodologies along with some proper example. | **(6)** | **Applying** |
|  |  |  |  |  |
|  | **(b)** | Differentiate between foot-printing and scanning. Also give some real life examples to justify your answer. | **(6)** | **Understanding** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.2** | **(a)** | Explain the following:  (i) Trojan horse (ii) Enumeration | **(6)** | **Knowing** |
|  |  |  |  |  |
|  | **(b)** | Differentiate between White box and Black box hacking technique. | **(6)** | **Differentiating** |
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|  |  | **UNIT-II (CO2)** |  |  |
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| **Q.3** | **(a)** | How session hijacking is performed? Give step by step instructions to prevent the session hijacking attack on a system. | **(6)** | **Applying** |
|  |  |  |  |  |
|  | **(b)** | What do you understand by cookies and how hackers steal the data using the same? | **(6)** | **Knowing** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.4** | **(a)** | Discuss the hacking of web servers. How it can be prevented? | **(6)** | **Knowing** |
|  |  |  |  |  |
|  | **(b)** | What do you understand by web jacking? How Owasp can be used to prevent the same? | **(6)** | **Understanding** |
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|  |  | **UNIT-III (CO3)** |  |  |
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| **Q.5** | **(a)** | Write the Owasp top 5 and explain the same. | **(6)** | **Knowing** |
|  |  |  |  |  |
|  | **(b)** | What do you understand by CVE and how it is different from Owasp? | **(6)** | **Applying** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.6** | **(a)** | Explain the following:  (i) Brute force (ii) Dictionary attack (iii) Rainbow attack | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | How passwords can be secured in the database? Why it is recommended to use the strong passwords? | **(6)** | **Knowing** |
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|  |  | **UNIT-IV (CO4)** |  |  |
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| **Q.7** | **(a)** | What do you understand by SQL injection? Explain using some of the examples. | **(6)** | **Applying** |
|  |  |  |  |  |
|  | **(b)** | Differentiate between IDS and IPS. | **(6)** | **Applying** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.8** | **(a)** | Discuss the types of Firewalls. Also give some suitable example for the same. | **(6)** | **Knowing** |
|  |  |  |  |  |
|  | **(b)** | What do you understand by evading the firewall? Write down at least 3 procedures to do the same. | **(6)** | **Knowing** |
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|  |  | **UNIT V (CO5)** |  |  |
|  |  |  |  |  |
| **Q.9** | **(a)** | Discuss the ISO 27000 series. And how it is playing an important role in the field of information security? | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | Discuss the Risk matrix and explain the severity rate along with the matrix. | **(6)** | **Knowing** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.10** | **(a)** | What is the role of report writing in the penetration testing report? | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | Differentiate between Vulnerability assessment and Penetration testing. | **(6)** | **Differentiating** |