**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, November 2022**

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|  | **2BC3117** | Roll No. | Total Printed Pages: 2 |
| **2BC3117** |  |
| BCA II Year III-Semester (Main/Back) End Semester Examination, November 2022  **(Cyber Security)** | |
| **BCYCCA3104 : 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)** | Explain:  (i) Trojan horse (ii) Viruses | **(6)** | **Applying** |
|  |  |  |  |  |
|  | **(b)** | Differentiate between hacking and ethical hacking. | **(6)** | **Understanding** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.2** | **(a)** | How Black box technique works? List some of the advantages and disadvantages for the same. | **(6)** | **Knowing** |
|  |  |  |  |  |
|  | **(b)** | How foot printing is different from scanning? Explain using some of the real life examples. | **(6)** | **Differentiating** |
|  |  |  |  |  |
|  |  | **UNIT-II (CO2)** |  |  |
|  |  |  |  |  |
| **Q.3** | **(a)** | What do you understand by packet sniffing? Which of the security goal preserves the same? | **(6)** | **Applying** |
|  |  |  |  |  |
|  | **(b)** | Differentiate between DoS and DDoS? How to prevent the same? | **(6)** | **Knowing** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.4** | **(a)** | How session hijacking works? Also discuss the importance of session. | **(6)** | **Knowing** |
|  |  |  |  |  |
|  | **(b)** | Discuss the attacks on the CIA triad. | **(6)** | **Understanding** |
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|  |  | **UNIT-III (CO3)** |  |  |
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| **Q.5** | **(a)** | How password attack can be done? Also write down the prevention of the attack. | **(6)** | **Knowing** |
|  |  |  |  |  |
|  | **(b)** | Discuss the following:  (i) Dictionary attack (ii) Rainbow attack | **(6)** | **Applying** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.6** | **(a)** | What do you understand by web jacking? Also discuss the prevention mechanisms. | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | How phishing scam works? Also explain the detection process of the same. | **(6)** | **Knowing** |
|  |  |  |  |  |
|  |  | **UNIT-IV (CO4)** |  |  |
|  |  |  |  |  |
| **Q.7** | **(a)** | Explain:  (i) Hacking wireless technologies (ii) ARP spoofing | **(6)** | **Applying** |
|  |  |  |  |  |
|  | **(b)** | What do you understand by SQL injection? | **(6)** | **Applying** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.8** | **(a)** | Discuss the types of firewalls. | **(6)** | **Knowing** |
|  |  |  |  |  |
|  | **(b)** | Differentiate between IDS and IPS. | **(6)** | **Knowing** |
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|  |  | **UNIT V (CO5)** |  |  |
|  |  |  |  |  |
| **Q.9** | **(a)** | Discuss the process and importance of report writing. | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | Differentiate between Vulnerability assessment and Penetration testing. | **(6)** | **Differentiating** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.10** | **(a)** | What do you understand by ISO 27000 series? | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | Explain the risk matrix and how it is evaluated? | **(6)** | **Knowing** |