



POORNIMA UNIVERSITY, JAIPUR
END SEMESTER EXAMINATION, 2023-2024 EVEN SEMESTER

Write Roll No Below: _____

MCA (CS) () - II Sem () End Semester Examination,
MCYCCA2101: Ethical Hacking

Time: 3 Hours

Total Marks: 60

Min. Passing Marks: 21/24/27

Question Paper ID: 001284

Instructions: Attempt all five questions. There is an internal choice either (a or b) in Q1 to Q5. Marks of each question or its parts are indicated against each question/part. Draw neat sketches wherever necessary to illustrate the answer. Assume missing data suitably (if any) and clearly indicate the same in the answer.

Bloom Level(BL): 1-Remembering, 2-Understanding, 3-Applying, 4-Analysing, 5-Evaluating, 6-Creating

Use of following supporting material is permitted during examination for this subject:

- Q1. (a)** (i) Define the elements/principles of information security. What is footprinting? Briefly explain its types and the purpose of footprinting. **(6 Marks)** **Marks BL CO**
12 1 1
(ii) What are the various steps of Hacking Methodology? Explain the Vulnerability Scanning in details. **(6 Marks)**
- (OR)**
- (b)** (i) Draw a comparison amongst Hacking and Ethical Hacking. What are the core benefits of Vulnerability Assessment? **(6 Marks)**
(ii) What is Penetration Testing? Differentiate black-box and white-box testing with example. **(6 Marks)**
- Q2. (a)** (i) Differentiate between Distributed Denial of Service attack and Denial of Service Attack. **(6 Marks)** **Marks BL CO**
12 1 2
(ii) What is the CIA Triad and why is it important? **(6 Marks)**
- (OR)**
- (b)** (i) Discuss the concept of sniffing and explain its architecture. **(6 Marks)**
(ii) Define Hijacking in reference to Cyber Security. Explain the following in detail: **(6 Marks)**
a) MIM and UDP Hijacking
b) Network Level Hijacking
- Q3. (a)** (i) Explain different techniques of Cracking the passwords? **(6 Marks)** **Marks BL CO**
12 1 3
(ii) Discuss A2, A7, A3 and A4 vulnerabilities with respect to OWASP 2013. **(6 Marks)**
- (OR)**
- (b)** (i) What is Web jacking? Explain the methods used to prevent the web jacking. **(6 Marks)**
(ii) How can proxy server be used for attacks? What is proxy chaining? **(6 Marks)**
- Q4. (a)** (i) How can web site login be bypassed using SQL injection? Explain with example. **(6 Marks)** **Marks BL CO**
12 1 4
(ii) Define the Following: **(6 Marks)**
a) The stages in life cycle of a worm.
b) What are different types of sniffing attacks? Explain each in brief.
c) Explain SYN attack and SYN flooding.
- (OR)**
- (b)** (i) Explain the following SQL injection attacks with examples: **(6 Marks)**
a) Code analysis
b) Attack Analysis
c) Updating a table
d) Adding new records
e) Identifying table name
f) Deleting the table.
(ii) Define IDS. Explain the various types of techniques used to evade IDS. **(6 Marks)**
- Q5. (a)** (i) Explain Wireless hacking tools with examples. **(6 Marks)** **Marks BL CO**
12 1 5
(ii) Define the term Vulnerability Management. Explain the steps of Vulnerability Management. **(6 Marks)**
- (OR)**
- (b)** (i) Draw the difference in low level reporting and high level reporting. **(6 Marks)**
(ii) Explain Report Writing & Mitigation in hacking. **(6 Marks)**

End of Question Paper