

## POORNIMA UNIVERSITY, JAIPUR

**END SEMESTER EXAMINATION, 2023-2024 EVEN SEMESTER** 

Write Roll No Below:

BCA Cyber Security II () - IV (Main/Back) End Semester Examination, April 2024

**BCYCCA4104: Application Security** 

Time: 3 Hours Total Marks: 60 Min. Passing Marks: 21/24/27 Question Paper ID: 000758

**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: Nil

Q1. (a) (i) State the basic concept of session management in application software with example. [6 Marks BL CO Marks]

(ii) Discuss different formats in web security with examples.[6 Marks]

(OR)

(b) (i) Explain the concept of a Failure state in SDLC. [6 Marks]

respect to OWASP 2021.[6 Marks]

(ii) Discuss different data types in web security concerning OWASP 2021.[6 Marks]

Q2. (a) (i) Explain Server side request forgery as a case study with target,methods,outcomes and countermeasures with respect to OWASP 2021.[6 Marks]
(ii) Explain Injection as a case study with target,methods,outcomes and countermeasures with

(OR)

(b) (i) Explain Broken Web Authentication as a case study with target, methods, outcomes, and countermeasures concerning OWASP 2021.[6 Marks]

(ii) Explain Cryptographic storage failure as a case study with target, methods, outcomes, and countermeasures concerning OWASP 2021.**[6 Marks]** 

Q3. (a) (i) Briefly explain the URL interpretation Attacks with its architecture and types.[6 Marks]

Marks BL CO

(ii) How Could Authentication-Based Vulnerabilities Impact You? Illustrate its type also.[6 Marks] (OR)

12 2 3

(b) (i) Discuss the buffer overflow attack and which language is vulnerable to this attack.[6 Marks]

(ii) Discuss any 5 automated tools for web vulnerability scanning.[6 Marks]

Q4. (a) (i) Discuss Authentication Vulnerabilities with its types(any 7).[6 Marks]

Marks BL CO

2

12

(ii) Explain the impact of SQL injection attack on an web application and explain its mitigation techniques.[6 Marks]

(OR)

(b) (i) Explain Application Coding vulnerabilities with its types. [6 Marks]

(ii) Discuss the different Java applet security with example. [6 Marks]

Q5. (a) (i) Define container security with example. [6 Marks]

Marks BL CO

1

12

(ii) Explain agile security with example.[6 Marks]

OR

(b) (i) Differentiate DAST and SAST in terms of security. [6 Marks]

(ii) Discuss DEVSECOPS with its benefits.[6 Marks]

\*\*\*End of Question Paper\*\*\*