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MSE–033

MASTER OF SCIENCE
(INFORMATION SECURITY)
(MSCIS)
Term-End Examination
June, 2025

MSE-033 : WEB APPLICATION TESTING AND AUDIT

Time : 3 Hours *Maximum Marks : 100*

Note : *Question No.* ***1*** *is compulsory. Attempt any* ***three*** *from the rest.*

1. (a) What do you understand by PGP Protocol ? How does PGP encryption work ? Also state its disadvantages.

2+5+3=10

(b) Explain in brief some important aspects of the mobile app that you need to keep in mind while building the mobile app architecture. 10

(c) What application logs serve the purpose ? Also list any *five* points that are important to be considered for logging. 5+5=10

(d) What do you understand by Simple Object Access Protocols ? Explain its parts. 10

2. (a) What do you understand by Web Log ? Explain the website log formats. 10

(b) Describe any *five* malware kinds or sources that can be used in privilege escalation attack. 5

(c) Briefly explain the techniques for mobile application forensics. 5

3. (a) What do you understand by Data Leaks in the context of HTML5 ? Briefly explain various types of data leaks used by attackers. 10

(b) What is Session Hijacking ? Explain what vulnerabilities in the server leads to such attacks. 10

4. Describe the practices are to be considered in session management vulnerabilities testing before launching a web application. 20

5. Differentiation between the following : 4×5=20

(a) IKE and IPsec

(b) Vertical *vs.* Horizontal privilege escalation

(c) Software Architecture and Software Design

(d) Django and Hug framework (Python webframe works)

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