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MSE-033

**MASTER OF SCIENCE
(INFORMATION SECURITY)
(MSCIS)**

Term-End Examination

June, 2026

**MSE-033 : WEB APPLICATION TESTING AND
AUDIT**

Time : 3 Hours

Maximum Marks : 100

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

1. (a) Describe in detail any *two* common authentication protocols. Give example.

10

- (b) Explain different components of web application architecture.

10

- (c) How Penetration Testing is different from Software Testing ? Explain with an example. 10
- (d) What are the key metrics and data that are typically analyzed during a website audit ? Give relevant examples. 10
2. (a) Explain web application testing. Why is it important in the software development process ? 10
- (b) Describe standards of web services and their application on securing issues. 10
3. (a) Explain methodologies for session management scheme testing. 10
- (b) How does direct API integration work ? Give an illustration. 10
4. (a) What do you mean by Encryption ? How does it work ? 10
- (b) What are the security issues with HTML5 ? How can it be secured ? 10

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5. Write short notes on the following : 4×5=20

- (a) Network-based Web Application Firewall
- (b) Mobile Application Forensics
- (c) Continuous Integration in s/w development
- (d) Domain Name System (DNS)

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