

No. of Printed Pages : 2

**MSE-033**

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

**Term-End Examination**

**June, 2023**

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

*Time : 3 Hours*

*Maximum Marks : 100*

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**Note :** (i) *Question No. 1 is compulsory.*

(ii) *Attempt any **three** questions from the rest.*

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1. (a) What do you mean by Web Security Protocol ? Explain SET protocol and PEM protocol. 10
- (b) Explain different ways to authenticate a web application with illustration. 10
- (c) Explain different components of web application architecture. 10

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- (d) Describe the fundamentals of web application security audit. 10
2. (a) What do you mean by Encryption ? How does it work ? 10
- (b) Explain the architecture and characteristics of web services. 5
- (c) Discuss CML security with illustration. 5
3. (a) Explain attacks using HTMLS. How can it be secured ? 10
- (b) Describe standards of web services and their application on securing issues. 10
4. Explain OWASP top application security risks with illustration. 20
5. Write short notes on the following : 4×5=20
- (a) Differentiate between http, https and s-http
- (b) Domain Name System (DNS)
- (c) Network-based Web Application Firewall
- (d) Web Application Audit Tools