

No. of Printed Pages : 3

MSE-033

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

Term-End Examination

December, 2024

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

Time : 3 Hours

Maximum Marks : 100

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

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

1. This question is comprised of two parts I and II (attempt both).
 - (I) Write short notes on the following : $5 \times 4 = 20$
 - (a) Website Performance Audit
 - (b) Accessibility Audit
 - (c) Black-Box Testing
 - (d) Cross Site Scripting (XSS)
 - (e) Load Testing

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(II) Answer the following : 5×4=20

- (a) Discuss the importance of cross-browser testing and compatibility testing in web application testing.
 - (b) Define website auditing and its significance in optimizing the performance of websites.
 - (c) Explain the difference between functional testing and security testing in the context of web applications.
 - (d) Describe the deliverables and recommendations typically provided in a website audit report to guide improvements and enhancements.
 - (e) Briefly discuss any *two* OWASP attacks with example.
2. (a) Explain the significance of security auditing for websites, including vulnerability assessments and threat modelling. 10
- (b) Describe the steps involved in auditing a website's User Experience (UX) and User Interface (UI). 10

3. (a) How can Cross-Site Scripting (XSS) vulnerabilities be identified and mitigated during web application testing ? 10
(b) Describe the process of conducting usability testing for a web application. 10
4. (a) How can website analytics data be used during an audit to identify areas for improvements ? 10
(b) How can website speed and performance be evaluated during an audit, and why is it critical for user satisfaction ? 10
5. (a) How is CSRF attack different from SSRF attack ? Explain with examples. 10
(b) Is Mobile App auditing different from Website App auditing ? Explain with examples and case studies. 10

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