MSE–033

MASTER OF SCIENCE
(INFORMATION SECURITY) (MSCIS)
Term-End Examination
June, 2024

MSE-033 : WEB APPLICATION TESTING AND AUDIT

Time : 3 Hours　　　　*Maximum Marks : 100*

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

1. This question is comprised for two parts I and II (Attempt both). Write short notes on the following : 5×4=20

   (I) (a) Continuous Integration

   (b) Web Analytics

   (c) Usability Testing

   (d) Domain Name System (DNS)

   (e) Compliance Audit

(II) Answer the following :   5×4=20

   (a) How penetration testing is different from Software Testing ?

   (b) How can security headers and HTTP response codes be used to assess the security of a web application ?

   (c) Explain the process of conducting a content audit for a website and its impact on content strategy.

   (d) How does mobile responsiveness auditing help in ensuring a website's adaptability to various devices and screen sizes ?

   (e) What are the key metrics and analytics data that are typically analyzed during a website audit ?

2. (a) What is web application testing, and why is it important in the software development process ?   10

   (b) What is Search Engine Optimization (SEO) Audit ? Explain the importance of SEO (Search Engine Optimization) Auditing for Websites.   10

3. (a) How can website speed and performance be evaluated during an audit and why it is crucial for user satisfaction ? 10

   (b) What are the common security vulnerabilities that web application testing aims to uncover ? 10

4. (a) Discuss the role of SQL injection testing in web application security. 10

   (b) Discuss the role of accessibility auditing in ensuring a website is usable by people with disabilities. 10

5. (a) What is OWASP and how does it provide guidelines and tools for web application testing ? 10

   (b) What is content auditing, and how can it help improve a website's content strategy ?

   10

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