36 Lecture - CS504

Important Mcqs

Question 1: What is the primary goal of Software Verification and Validation? A) To create software requirements B) To detect and fix software defects C) To design user interfaces D) To improve software performance Solution: B) To detect and fix software defects Question 2: Which of the following activities is part of Software Verification? A) Code review B) Software installation C) User acceptance testing D) Software maintenance Solution: A) Code review Question 3: What is the purpose of Software Validation? A) To ensure software meets customer needs and expectations B) To check software for syntax errors C) To verify software security features D) To test software under different operating systems Solution: A) To ensure software meets customer needs and expectations Question 4: Which testing technique focuses on testing individual functions or code units? A) System testing B) Integration testing C) Unit testing D) Regression testing Solution: C) Unit testing Question 5: What is the primary objective of Regression Testing? A) To identify security vulnerabilities B) To verify new features C) To validate user requirements D) To ensure changes don't adversely impact existing functionality Solution: D) To ensure changes don't adversely impact existing functionality Question 6: Which verification technique is used to ensure software requirements are complete and consistent? A) Black-box testing B) Boundary value analysis C) Requirements traceability matrix D) Stress testing **Solution: C) Requirements traceability matrix** Question 7: What does the term "Static Testing" refer to? A) Testing the software in a dynamic environment B) Testing the software with real data C) Reviewing software code and documents without executing the code D) Testing software performance under load Solution: C) Reviewing software code and documents without executing the code Question 8: Which verification activity ensures that code adheres to coding standards and guidelines? A) Integration testing B) Code inspection C) User acceptance testing D) Regression testing Solution: B) Code inspection Question 9: Which validation technique involves end-users testing the software in a production-like environment? A) Alpha testing B) Beta testing C) Acceptance testing D) Smoke testing Solution: C) Acceptance testing Question 10: What is the primary goal of Software V&V? A) Deliver software on schedule B) Ensure software is bug-free C) Meet customer requirements and expectations D) Reduce development costs Solution: C) Meet customer requirements and expectations