

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**