

Test I - Multiple-Choice Exam: Software Testing

Each question is worth 3 points. Choose the best answer for each item.

1. Which of the following is a direct objective of software testing?

- A. To compile a record of software errors for process improvement
 - B. To perform tests efficiently and within budgetary limitations
 - C. To create a test plan for acceptance testing
 - D. To verify the hardware-software mapping
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2. What type of testing is performed by developers on individual units or modules?

- A. System Testing
 - B. Integration Testing
 - C. Unit Testing
 - D. Acceptance Testing
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3. The primary purpose of integration testing is to:

- A. Verify that individual units perform as expected
 - B. Ensure modules and their interfaces work together
 - C. Test the product's compliance with business requirements
 - D. Evaluate the software under heavy loads
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4. Which testing phase is responsible for verifying that the system requirements have been correctly implemented?

- A. System Testing
 - B. Performance Testing
 - C. Unit Testing
 - D. Acceptance Testing
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5. Which of the following is NOT part of the general format for documenting test cases?

- A. Test Case ID
 - B. Test Data
 - C. Administrative Details
 - D. System Architecture
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6. What is the focus of performance testing?

- A. Identifying mismatched interfaces
 - B. Ensuring non-functional requirements are met
 - C. Verifying the mapping between requirements and design
 - D. Testing the usability of the system
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7. During the requirements analysis phase, which activity is performed?

- A. Validating the design and interface
 - B. Writing and compiling classes and methods
 - C. Evaluating the gathered requirements
 - D. Preparing for acceptance and usability testing
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8. In the intermediate design phase, testing activities involve:

- A. Verifying system requirements
 - B. Refining unit and integration test plans
 - C. Preparing system deployment
 - D. Conducting stress testing
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9. The purpose of acceptance testing is to:

- A. Identify as many errors as possible in the software
 - B. Verify that modules function correctly in isolation
 - C. Demonstrate the product meets customer expectations
 - D. Test the software under heavy loads
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10. What testing approach benefits from an enterprise architecture alignment?

- A. Unit Testing
 - B. Integration Testing
 - C. System Testing
 - D. Acceptance Testing
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11. A test group typically conducts which type of testing?

- A. Unit Testing
 - B. Integration Testing
 - C. System Testing
 - D. Performance Testing
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12. In the implementation design phase, the main testing focus is on:

- A. Performing unit tests efficiently
 - B. Preparing test cases for usability testing
 - C. Logging and reporting system defects
 - D. Writing intermediate design specifications
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13. Which type of testing uses tools to simulate many users and measure response times?

- A. Unit Testing
 - B. System Testing
 - C. Performance Testing
 - D. Integration Testing
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14. A properly documented test case includes:

- A. Test harnesses and technical code tests
 - B. Test objectives, steps, and expected results
 - C. System architecture and design mapping
 - D. Business requirements traceability
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15. Which objective of testing involves compiling a record of errors for process improvement?

- A. Direct Objective
 - B. Indirect Objective
 - C. Technical Objective
 - D. Process Objective
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Test II - Fill in the Missing Words (5 pts each)

Complete the words below to identify the characteristics of emerging technologies:

1. **R_a_i_a_ N_o_e_t_**
Emerging technologies introduce groundbreaking approaches that disrupt existing methods.
2. **R_l_t_v_l_ F_s_**
These technologies develop quickly, adapting to changes and advancing rapidly.
3. **C_o_e_e_c_**
Their components and applications align cohesively to address complex problems.
4. **P_o_i_e_t I_p_a_t**
Emerging technologies significantly transform industries, economies, and societies.
5. **U_c_r_a_n_y and A_b_g_i_y**
Due to their novelty, these technologies often have unpredictable outcomes.