

## SET 5: CS Q&A

**Q1.** Which phase in the SDLC involves converting system specifications into a working system?

- A. Design
- B. Implementation
- C. Testing
- D. Maintenance

**Correct Answer:** B

**Explanation:** Implementation is where actual coding takes place and the system is built.

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**Q2.** Which testing technique is used to check the interactions between integrated modules?

- A. Unit Testing
- B. Integration Testing
- C. System Testing
- D. Acceptance Testing

**Correct Answer:** B

**Explanation:** Integration Testing ensures that combined modules function correctly together.

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**Q3.** Which tool is commonly used to track bugs and issues in software projects?

- A. Git
- B. Jenkins
- C. JIRA
- D. Eclipse

**Correct Answer:** C

**Explanation:** JIRA is a popular issue and bug tracking system used by software teams.

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**Q4.** What command is used in Linux to view the last lines of a log file?

- A. head
- B. tail
- C. cat
- D. more

**Correct Answer:** B

**Explanation:** The tail command is used to display the last part of files, commonly logs.

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**Q5.** What type of maintenance involves modifying software to improve performance or maintainability?

- A. Corrective
- B. Adaptive
- C. Perfective
- D. Preventive

**Correct Answer:** C

**Explanation:** Perfective maintenance improves performance or maintainability of the software.

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**Q6.** What does the DRY principle in programming stand for?

- A. Do Retry Yourself
- B. Don't Repeat Yourself
- C. Data Repository Yield
- D. Debug Regularly Yourself

**Correct Answer:** B

**Explanation:** DRY (Don't Repeat Yourself) is a programming principle aimed at reducing code repetition.

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**Q7.** Smoke Testing is also known as:

- A. Unit Testing
- B. Sanity Testing
- C. Confidence Testing
- D. Regression Testing

**Correct Answer:** C

**Explanation:** Smoke Testing is often referred to as Confidence Testing; it ensures basic functionality works before deeper testing.

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**Q8.** What is the role of the “ping” command in IT support?

- A. Transfer files over a network
- B. Test network connectivity
- C. Secure a connection
- D. Restart a service

**Correct Answer:** B

**Explanation:** The ping command tests the reachability of a host on a network and measures round-trip time.

---

**Q9.** Which of the following is a version control system?

- A. Git
- B. Apache
- C. SQL
- D. Docker

**Correct Answer:** A

**Explanation:** Git is a distributed version control system used to track changes in source code.

---

**Q10.** What type of software maintenance is performed after a system crash to restore functionality?

- A. Preventive
- B. Adaptive
- C. Perfective
- D. Corrective

**Correct Answer:** D

**Explanation:** Corrective maintenance involves fixing bugs or errors found after the software is deployed.

**Q11.** What is the primary objective of unit testing?

- A. Validate the entire system
- B. Check the integration of modules
- C. Test individual components
- D. Identify UI issues

**Correct Answer:** C

**Explanation:** Unit testing focuses on testing individual functions or methods to ensure they work as expected.

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**Q12.** In software development, what is a "use case"?

- A. A testing tool
- B. A bug report
- C. A list of modules
- D. A description of system behavior from the user's perspective

**Correct Answer:** D

**Explanation:** A use case describes how a user interacts with a system to achieve a goal.

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**Q13.** What is the main purpose of version control systems?

- A. Format the code
- B. Test code
- C. Track changes and collaborate on code

D. Deploy software

**Correct Answer:** C

**Explanation:** Version control systems like Git help track code changes and manage team collaboration.

---

**Q14.** Which of the following is NOT a black-box testing technique?

- A. Boundary Value Analysis
- B. Equivalence Partitioning
- C. Decision Table Testing
- D. Statement Coverage

**Correct Answer:** D

**Explanation:** Statement coverage is a white-box testing technique.

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**Q15.** What is the purpose of an API in software development?

- A. Encrypt the database
- B. Act as an interface between different software applications
- C. Perform testing
- D. Debug hardware

**Correct Answer:** B

**Explanation:** API (Application Programming Interface) allows communication between software applications.

---

**Q16.** Which file extension is commonly associated with configuration files in Linux?

- A. .exe
- B. .cfg
- C. .bat
- D. .docx

**Correct Answer:** B

**Explanation:** .cfg is commonly used for configuration files in Linux and other OS.

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**Q17.** What type of software maintenance includes updating software due to changes in the environment?

- A. Adaptive
- B. Corrective
- C. Preventive
- D. Perfective

**Correct Answer:** A

**Explanation:** Adaptive maintenance adapts the software to changes in the operating environment.

---

**Q18.** What is the role of Jenkins in software development?

- A. Version control
- B. Continuous Integration/Delivery
- C. Code editor
- D. Test case generator

**Correct Answer:** B

**Explanation:** Jenkins is a tool for automating CI/CD pipelines.

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**Q19.** Which software development model is best suited for projects with changing requirements?

- A. Waterfall
- B. V-Model
- C. Agile
- D. Spiral

**Correct Answer:** C

**Explanation:** Agile handles changes effectively due to its iterative and incremental approach.

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**Q20.** What does the “try-catch” block handle in programming?

- A. Database calls
- B. Compilation
- C. Exceptions
- D. Input/output

**Correct Answer:** C

**Explanation:** The try-catch block is used to handle runtime exceptions in many programming languages.

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**Q21.** Which tool is used for performance testing?

- A. Selenium
- B. JIRA
- C. JMeter
- D. Jenkins

**Correct Answer:** C

**Explanation:** JMeter is designed for load and performance testing of applications.

---

**Q22.** What is a common symptom of malware infection in a computer?

- A. Faster startup
- B. Increased security
- C. Unexpected pop-ups
- D. Improved performance

**Correct Answer:** C

**Explanation:** Malware often causes pop-ups, slowdowns, and unauthorized actions on a system.

---

**Q23.** What is refactoring in software development?

- A. Removing all comments
- B. Rewriting code to improve structure without changing behavior
- C. Testing code
- D. Updating the operating system

**Correct Answer:** B

**Explanation:** Refactoring improves code structure, readability, and maintainability without altering external behavior.

---

**Q24.** Which of the following is used to manage databases in IT support?

- A. Apache
- B. MySQL
- C. GitHub
- D. Nginx

**Correct Answer:** B

**Explanation:** MySQL is a relational database management system.

---

**Q25.** What is an example of preventive maintenance?

- A. Fixing a crash bug
- B. Installing a security update
- C. Updating software to support new OS
- D. Redesigning code for better performance

**Correct Answer:** B

**Explanation:** Preventive maintenance aims to avoid future problems, like applying security patches.

---

**Q26.** Which of the following best defines regression testing?

- A. Testing newly developed code
- B. Testing only the user interface

- C. Testing previously working functionality after changes
- D. Testing database performance

**Correct Answer:** C

**Explanation:** Regression testing ensures that existing functionality still works after code changes.

---

**Q27.** What does the acronym SSD stand for in computer hardware?

- A. Software System Drive
- B. Secure System Device
- C. Solid State Drive
- D. Standard System Disk

**Correct Answer:** C

**Explanation:** SSD is a high-speed storage device with no moving parts.

---

**Q28.** What is continuous integration (CI)?

- A. Integrating new hires
- B. Combining modules once at the end
- C. Frequently merging code into a shared repository
- D. Designing test cases

**Correct Answer:** C

**Explanation:** CI is a DevOps practice of merging code regularly to detect issues early.

---

**Q29.** Which of the following is a static code analysis tool?

- A. Selenium
- B. SonarQube
- C. Jenkins
- D. Postman

**Correct Answer:** B

**Explanation:** SonarQube is used to inspect code quality and perform static analysis.

---

**Q30.** What does Ctrl + Alt + Del typically do on a Windows system?

- A. Turns off the screen
- B. Opens Task Manager/Login options
- C. Formats the hard disk
- D. Opens BIOS settings

**Correct Answer:** B

**Explanation:** Pressing Ctrl + Alt + Del opens Task Manager options or a login screen in Windows.

---

**Q31.** What is the primary purpose of a constructor in object-oriented programming?

- A. Destroy objects
- B. Save memory
- C. Initialize an object
- D. Compile the code

**Correct Answer:** C

**Explanation:** Constructors initialize an object when it is created, setting default or initial values.

---

**Q32.** Which of the following is a major goal of software testing?

- A. Increase hardware speed
- B. Reduce code reuse
- C. Identify defects
- D. Write code

**Correct Answer:** C

**Explanation:** Software testing primarily aims to detect bugs and ensure software quality.

---

**Q33.** In IT support, which port is used by HTTP?

- A. 20
- B. 25
- C. 80
- D. 443

**Correct Answer:** C

**Explanation:** Port 80 is the default port used by HTTP protocol.

---

**Q34.** What is the purpose of the chmod command in Linux?

- A. Change hostname
- B. Change file ownership
- C. Change file permissions
- D. Create directories

**Correct Answer:** C

**Explanation:** chmod changes the permission of a file or directory.

---

**Q35.** Which metric indicates the average time to fix a defect after it's found?

- A. MTTF
- B. MTTR
- C. MTBF
- D. MTTA

**Correct Answer:** B

**Explanation:** Mean Time To Repair (MTTR) measures how long it takes to fix a problem.

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**Q36.** What is the role of assertions in unit testing?

- A. Compile code
- B. Check that conditions are true

- C. Build user interfaces
- D. Track memory

**Correct Answer:** B

**Explanation:** Assertions check expected outcomes in tests and raise errors if conditions fail.

---

**Q37.** What is meant by "hotfix" in software maintenance?

- A. A major upgrade
- B. Temporary removal of features
- C. Quick bug fix applied in production
- D. Security scan

**Correct Answer:** C

**Explanation:** A hotfix is a fast, targeted update to resolve critical issues in production.

---

**Q38.** Which keyword is used to define a function in Python?

- A. func
- B. define
- C. method
- D. def

**Correct Answer:** D

**Explanation:** def is used in Python to define a function.

---

**Q39.** Which type of test is performed by the client before accepting the product?

- A. Regression testing
- B. Integration testing
- C. Alpha testing
- D. User Acceptance Testing

**Correct Answer:** D

**Explanation:** User Acceptance Testing (UAT) is done by the client to validate if requirements are met.

---

**Q40.** What does SaaS stand for in cloud computing?

- A. Software as a Service
- B. Software as a Script
- C. System as a Solution
- D. Security as a Standard

**Correct Answer:** A

**Explanation:** SaaS delivers software applications over the internet as a service.

---

**Q41.** Which of the following is used for system restore in Windows?

- A. Task Manager
- B. Control Panel
- C. System Configuration
- D. System Restore

**Correct Answer:** D

**Explanation:** System Restore reverts the system files to a previous state without affecting personal files.

---

**Q42.** What is the purpose of a debugger?

- A. Execute SQL
- B. Create user interface
- C. Find and fix program errors
- D. Encrypt passwords

**Correct Answer:** C

**Explanation:** A debugger helps in identifying and fixing errors in code by running step-by-step.

---

**Q43.** Which HTTP status code indicates "Not Found"?

- A. 200
- B. 301
- C. 403
- D. 404

**Correct Answer:** D

**Explanation:** HTTP status code 404 means the requested resource was not found.

---

**Q44.** What is meant by “scalability” in software systems?

- A. Ability to use more hardware
- B. Ability to handle growth or increased load
- C. Ability to detect bugs
- D. Ability to generate code

**Correct Answer:** B

**Explanation:** Scalability is a system's capacity to grow in usage without performance loss.

---

**Q45.** What is the first step in the debugging process?

- A. Write test cases
- B. Identify the bug
- C. Replace libraries
- D. Compile the program

**Correct Answer:** B

**Explanation:** Debugging starts with identifying or reproducing the bug before fixing it.

---

**Q46.** In the Agile methodology, what is a "sprint"?

- A. A documentation cycle
- B. A short development cycle with defined goals

- C. A user interface framework
- D. A marketing tool

**Correct Answer:** B

**Explanation:** A sprint is a time-boxed effort in Agile where a specific set of tasks is completed.

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**Q47.** Which protocol is used for sending email?

- A. FTP
- B. POP3
- C. SMTP
- D. HTTP

**Correct Answer:** C

**Explanation:** SMTP (Simple Mail Transfer Protocol) is used to send emails between servers.

---

**Q48.** What is a memory leak?

- A. Loss of data due to virus
- B. CPU overload
- C. Unused memory that is not released
- D. Storage overflow

**Correct Answer:** C

**Explanation:** Memory leak happens when programs do not release unused memory, affecting performance.

---

**Q49.** What is the benefit of code reviews?

- A. Increases runtime
- B. Catches errors early
- C. Slows down development
- D. Reduces documentation

**Correct Answer:** B

**Explanation:** Code reviews help in detecting bugs, enforcing standards, and improving quality.

---

**Q50.** What does 127.0.0.1 represent in networking?

- A. Broadcast address
- B. External IP
- C. Loopback (localhost)
- D. Gateway IP

**Correct Answer:** C

**Explanation:** 127.0.0.1 is the loopback address used to test networking on the local machine.

---

**Q51.** Which programming construct is used to repeat a block of code multiple times?

- A. If-else
- B. Switch
- C. Loop
- D. Function

**Correct Answer:** C

**Explanation:** Loops such as for, while, and do-while are used to execute code repeatedly.

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**Q52.** What is the purpose of load testing?

- A. Check the look and feel of an application
- B. Test the performance under expected load
- C. Identify broken links
- D. Validate source code

**Correct Answer:** B

**Explanation:** Load testing determines how a system behaves under a specific expected load.

---

**Q53.** Which command in Windows shows the IP configuration of the machine?

- A. ping
- B. netstat
- C. ipconfig
- D. tracert

**Correct Answer:** C

**Explanation:** The ipconfig command displays IP address, subnet mask, and default gateway.

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**Q54.** Which of the following is an example of preventive maintenance?

- A. Fixing a runtime error
- B. Upgrading to a newer programming version
- C. Adding new features
- D. Cleaning unused files and dependencies

**Correct Answer:** D

**Explanation:** Preventive maintenance is done to avoid future problems, like cleaning up files.

---

**Q55.** Which access modifier in Java makes variables accessible only within the class?

- A. public
- B. protected
- C. private
- D. static

**Correct Answer:** C

**Explanation:** private limits the scope of variables and methods to the class they are declared in.

---

**Q56.** What is a regression test?

- A. A test to check new features
- B. A test to verify old features after updates
- C. A performance test
- D. A security test

**Correct Answer:** B

**Explanation:** Regression testing ensures that new code changes have not affected existing functionality.

---

**Q57.** What is BIOS responsible for?

- A. Booting the operating system
- B. Compiling the code
- C. Running Python scripts
- D. Managing user accounts

**Correct Answer:** A

**Explanation:** BIOS (Basic Input Output System) initializes hardware and starts the OS on boot.

---

**Q58.** What is the output of `5 == "5"` in most strongly typed programming languages?

- A. true
- B. false
- C. Error
- D. Undefined

**Correct Answer:** B

**Explanation:** In strongly typed languages, `==` checks both value and type, so number and string won't match.

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**Q59.** What is the main aim of software configuration management?

- A. Software testing
- B. Version control and tracking changes
- C. UI design
- D. Performance monitoring

**Correct Answer:** B

**Explanation:** Configuration management ensures consistency and control over software changes.

---

**Q60.** What is the primary benefit of exception handling in software?

- A. Faster code
- B. Security
- C. Manage runtime errors gracefully
- D. Increase memory

**Correct Answer:** C

**Explanation:** Exception handling allows graceful handling of errors without crashing the program.

---

**Q61.** Which test is usually done by end-users at the client site?

- A. Unit testing
- B. Load testing
- C. Beta testing
- D. Smoke testing

**Correct Answer:** C

**Explanation:** Beta testing is performed by end-users in a real environment before full release.

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**Q62.** What is the use of the nslookup command?

- A. Check IP configuration
- B. Find domain name to IP mapping

- C. Display MAC address
- D. Show running services

**Correct Answer:** B

**Explanation:** nslookup is used to query DNS and resolve domain names to IP addresses.

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**Q63.** What is the outcome of skipping maintenance activities for software?

- A. Faster performance
- B. Reduced errors
- C. Increased risk of failure and outdated software
- D. Better documentation

**Correct Answer:** C

**Explanation:** Lack of maintenance can lead to vulnerabilities, bugs, and outdated features.

---

**Q64.** In SQL, what does the JOIN clause do?

- A. Combines rows from two or more tables
- B. Deletes tables
- C. Creates indexes
- D. Adds columns

**Correct Answer:** A

**Explanation:** JOIN is used to combine data from multiple tables based on a related column.

---

**Q65.** Which method is used in object-oriented programming to achieve runtime polymorphism?

- A. Method Overloading
- B. Method Overriding
- C. Inheritance

- D. Encapsulation

**Correct Answer:** B

**Explanation:** Method overriding allows a subclass to provide specific implementation of a method at runtime.

---

**Q66.** What does black box testing focus on?

- A. Source code structure
- B. Algorithm efficiency
- C. Functionality of the application
- D. Class inheritance

**Correct Answer:** C

**Explanation:** Black box testing checks the application's output without knowing internal code.

---

**Q67.** What is the function of a DHCP server?

- A. Stores email
- B. Assigns IP addresses dynamically
- C. Encrypts passwords
- D. Routes web traffic

**Correct Answer:** B

**Explanation:** DHCP dynamically assigns IP addresses to devices on a network.

---

**Q68.** What does a stack overflow error usually indicate?

- A. Infinite loop
- B. Memory leak
- C. Recursion without termination
- D. Too many files open

**Correct Answer:** C

**Explanation:** Stack overflow often results from unbounded recursion consuming stack memory.

---

**Q69.** Which SDLC phase includes feasibility analysis and requirement gathering?

- A. Design
- B. Development
- C. Planning
- D. Deployment

**Correct Answer:** C

**Explanation:** Planning includes feasibility study and gathering initial software requirements.

---

**Q70.** Which command is used to stop a process in Linux by its PID?

- A. pause
- B. quit
- C. kill
- D. close

**Correct Answer:** C

**Explanation:** The kill command is used with a process ID to stop running processes.

---

**Q71.** Which principle in Object-Oriented Programming promotes hiding internal details?

- A. Inheritance
- B. Abstraction
- C. Encapsulation
- D. Polymorphism

**Correct Answer:** C

**Explanation:** Encapsulation hides internal object details and shows only necessary features through interfaces.

---

**Q72.** Which type of testing is conducted to ensure that a fix has not affected other parts of the application?

- A. Sanity Testing
- B. Regression Testing
- C. Load Testing
- D. Usability Testing

**Correct Answer:** B

**Explanation:** Regression testing is done after code changes to ensure existing functionality remains unaffected.

---

**Q73.** Which port is typically used for HTTP?

- A. 20
- B. 21
- C. 80
- D. 443

**Correct Answer:** C

**Explanation:** Port 80 is the default for HTTP (HyperText Transfer Protocol) traffic.

---

**Q74.** What type of maintenance is required when software is updated to run on a newer OS?

- A. Adaptive
- B. Corrective
- C. Preventive
- D. Perfective

**Correct Answer:** A

**Explanation:** Adaptive maintenance involves updating software to run in a new environment.

---

**Q75.** Which keyword in Java is used to inherit a class?

- A. implements
- B. super
- C. extends
- D. inherits

**Correct Answer:** C

**Explanation:** The extends keyword is used to inherit a class in Java.

---

**Q76.** What is the aim of usability testing?

- A. Check performance
- B. Check how user-friendly an application is
- C. Check security
- D. Check memory usage

**Correct Answer:** B

**Explanation:** Usability testing focuses on the ease of use and user experience.

---

**Q77.** What is the function of a firewall?

- A. Optimize software
- B. Control network traffic based on rules
- C. Manage memory
- D. Connect printers

**Correct Answer:** B

**Explanation:** Firewalls filter network traffic to protect against unauthorized access.

---

**Q78.** Which design pattern provides a simplified interface to a complex system?

- A. Factory
- B. Singleton
- C. Facade
- D. Observer

**Correct Answer:** C

**Explanation:** The Facade pattern offers a high-level interface to a complex subsystem.

---

**Q79.** What does SDLC stand for?

- A. Software Design and Logic Compilation
- B. Software Development Lifecycle
- C. System Design and Launch Cycle
- D. Software Debugging and Launch Control

**Correct Answer:** B

**Explanation:** SDLC stands for Software Development Lifecycle, covering phases from planning to maintenance.

---

**Q80.** Which type of test is performed by the developers themselves before handing over to testers?

- A. Alpha Testing
- B. System Testing
- C. Unit Testing
- D. Smoke Testing

**Correct Answer:** C

**Explanation:** Developers perform unit testing to test individual modules of code.

---

**Q81.** What is the use of the chmod command in Unix/Linux?

- A. Change file ownership
- B. View directory
- C. Modify file permissions
- D. Edit text files

**Correct Answer:** C

**Explanation:** chmod changes the permissions of a file or directory.

---

**Q82.** What is the term for the process of locating and fixing bugs?

- A. Compiling
- B. Refactoring
- C. Debugging
- D. Deploying

**Correct Answer:** C

**Explanation:** Debugging is the process of finding and resolving defects in code.

---

**Q83.** Which software model is best suited for small projects with well-defined requirements?

- A. Agile
- B. Spiral
- C. Waterfall
- D. V-Model

**Correct Answer:** C

**Explanation:** Waterfall is suitable for small, well-understood projects with clear requirements.

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**Q84.** Which HTTP method is used to send data to the server to create/update a resource?

- A. GET

- B. POST
- C. DELETE
- D. HEAD

**Correct Answer:** B

**Explanation:** POST is used to send data to the server, often used in form submissions.

---

**Q85.** What is refactoring in software development?

- A. Fixing bugs
- B. Improving internal structure without changing behavior
- C. Adding new features
- D. Rewriting from scratch

**Correct Answer:** B

**Explanation:** Refactoring is improving the code structure without altering its external behavior.

---

**Q86.** What does the acronym “VPN” stand for?

- A. Virtual Private Network
- B. Visual Protected Node
- C. Verified Personal Network
- D. Variable Protocol Node

**Correct Answer:** A

**Explanation:** VPN creates a secure private network over the internet.

---

**Q87.** Which of the following is NOT a valid data type in Python?

- A. list
- B. set
- C. map
- D. tuple

**Correct Answer: C**

**Explanation:** map is a function in Python, not a data type.

---

**Q88.** What does the term "hotfix" refer to in software maintenance?

- A. Urgent patch to fix a bug
- B. Scheduled upgrade
- C. Minor feature update
- D. Code refactor

**Correct Answer: A**

**Explanation:** A hotfix is a quick fix to resolve critical issues in production systems.

---

**Q89.** What tool would you use for automated testing in Java?

- A. Maven
- B. JUnit
- C. Notepad++
- D. Jenkins

**Correct Answer: B**

**Explanation:** JUnit is a popular framework for writing and running unit tests in Java.

---

**Q90.** What is an SLA in IT support?

- A. Software Licensing Agreement
- B. Service Level Agreement
- C. System Log Access
- D. Secure Login Authority

**Correct Answer: B**

**Explanation:** SLA (Service Level Agreement) defines the level of service expected between provider and client.

---

**Q91.** Which of the following Agile frameworks uses sprints and daily stand-ups?

- A. Waterfall
- B. Scrum
- C. Spiral
- D. V-Model

**Correct Answer:** B

**Explanation:** Scrum is an Agile framework that uses fixed-length sprints and daily meetings.

---

**Q92.** What is the purpose of the try-except block in Python?

- A. Looping through data
- B. Exception handling
- C. Defining a function
- D. Writing comments

**Correct Answer:** B

**Explanation:** The try-except block is used to handle exceptions and prevent program crashes.

---

**Q93.** What kind of testing is performed without knowledge of internal code or structure?

- A. White-box Testing
- B. Unit Testing
- C. Black-box Testing
- D. Static Testing

**Correct Answer:** C

**Explanation:** Black-box testing evaluates software functionality without looking into internal code.

---

**Q94.** Which key is typically used in Windows to open Task Manager quickly?

- A. Ctrl + Alt + Delete
- B. Ctrl + Shift + Esc
- C. Alt + F4
- D. Windows + R

**Correct Answer:** B

**Explanation:** Ctrl + Shift + Esc directly opens Task Manager.

---

**Q95.** Which metric indicates the time between failure and recovery of a system?

- A. MTTR
- B. MTTF
- C. MTBF
- D. SLA

**Correct Answer:** A

**Explanation:** Mean Time To Repair (MTTR) measures the average time taken to recover from a failure.

---

**Q96.** In Git, what does the git clone command do?

- A. Uploads changes
- B. Creates a branch
- C. Makes a copy of a repository
- D. Commits changes

**Correct Answer:** C

**Explanation:** git clone is used to copy a remote repository to your local machine.

---

**Q97.** Which phase of testing is carried out by the end users?

- A. Unit Testing

- B. Regression Testing
- C. User Acceptance Testing
- D. Integration Testing

**Correct Answer:** C

**Explanation:** UAT is the final testing phase performed by actual users to ensure requirements are met.

---

**Q98.** Which file format is typically used to describe software dependencies in Node.js?

- A. pom.xml
- B. build.gradle
- C. package.json
- D. requirements.txt

**Correct Answer:** C

**Explanation:** package.json contains metadata and dependencies in Node.js projects.

---

**Q99.** What does “scalability” refer to in software systems?

- A. Reducing bugs
- B. Supporting increasing loads efficiently
- C. Speeding up builds
- D. Writing documentation

**Correct Answer:** B

**Explanation:** Scalability is the ability of a system to handle growth in workload effectively.

---

**Q100.** What is the primary purpose of version control?

- A. Debugging
- B. Code optimization
- C. Tracking changes in code over time

D. Minimizing file size

**Correct Answer:** C

**Explanation:** Version control systems like Git are used to track and manage changes in code over time.

The Mann Maker