1. Explain the following testing methods.
   a. Unit test   b. Integration test and its types
2. Explain the debugging process strategies and tools.
3. What are the software quality metrics? Explain in detail.
4. What are the different types of risk? Explain.

1. Which of the following statements is true?
   i.   A software once deployed cannot be modified later on.
   ii.   A software product is the deliverable program that can be presented in front of the customer.
   a. Only i is true   b.   *Only ii is true*
   c. Both i and ii are true   d.   None of them is true

2. Which of the following items are designed in the design phase of the software?
   a. Different modules of the software
   b. Interface between different modules
   c. Data flow and control flow
   d. *All of the above*

3. Which of the following is not a characteristic of a good software design?
   a. Correctness   b.   Understandability
   c. *Complex design*   d.   Efficiency

4. Which one of the following is not an integration testing.
   a. Top-down Integration   b.   Bottom-up Integration
   c. *Unit Testing*   d.   Smoke Testing

5. How many views of the software can be represented through the Unified Modeling Language (UML)?
   a. Four   b.   *Five*
   c. Nine   d.   None of the above

6. Which one of the following is the metrics for software quality.
   a.   Insufficient training   b.   Schedule risk
   c. *Customer satisfaction* d.   Technical risk

7. Which one of the following is not a risk projection activity.
   a. *Loss of contracts due to any reason*
   b. Establish a scale that reflects the perceived likelihood of a risk.
   c. Delineate the consequences of the risk.
   d. Estimate the impact of the risk on the project and the product.
8. Amongst which of the following is / are the ISO 9000 Quality Factors,
   a. Functionality, Reliability   b. Usability, Efficiency
   c. Maintainability, Portability   d. *All of the mentioned above*

9. What is the main intent of project metrics?
   a. For strategic purposes
   b. To minimize the development schedule.
   c. To evaluate the ongoing project's quality on a daily basis
   d. *To minimize the development schedule and evaluate the ongoing project's quality on a daily basis*

10. Which of the following threatens the quality and timeliness of the produced software?
   a. Business risks   b. Potential risks
   c. *Technical risks*   d. Known risks

11. Smoke testing is an <u>integration</u> testing approach.

12. White box testing is <u>structural</u> test of the software.

13. What is the full form of RMMM <u>Risk Mitigation, Monitoring and Management</u>

14. Expand FTR <u>Formal Technical Review</u>.

15. <u>Peer review</u> is performed in order to examine or resolve the defects in the software.

16. Expand ISO <u>Internal Standards Organization.</u>

17. <u>System Testing </u>is a black-box testing

18. *<u>Unit testing</u> is simplified when a component with high cohesion is designed.*

19. Source code is the <u>fundamental building</u> block of which your software is made.

20. <u>Technical risks</u> refers to the functional risk or performance risk