1. What is Software Engineering?  
   a) Designing a software  
   b) Testing a software  
   c) Application of engineering principles to the design a software  
   d) None of the above
2. What is a Functional Requirement?  
   a) specifies the tasks the program must complete  
   b) specifies the tasks the program should not complete  
   c) specifies the tasks the program must not work  
   d) All of the mentioned
3. What does SDLC stands for?  
   a) System Design Life Cycle  
   b) Software Design Life Cycle  
   c) Software Development Life Cycle  
   d) System Development Life cycle
4. Who proposed the spiral model?  
   a) Barry Boehm  
   b) Pressman  
   c) Royce  
   d) IBM
5. \_\_\_\_\_\_\_\_\_\_\_\_\_ specification is also known as SRS document.  
   a) white-box  
   b) grey-box  
   c) black-box  
   d) none of the mentioned
6. The word which describes the importance of software design is?  
   a) Complexity  
   b) Understandability

c) Reusability

d) None of these

7. Which of the following is the most important feature of Spiral Model?

a) Efficiency Management

b) Time Management

c) Quality Management

d) Risk Management

8. Identify the two dimensions of spiral model.

a) Radial, angular

b) Diagonal, angular

c) Diagonal, perpendicular

d) Angular, diagonal

9. The worst form of module cohesion is\_\_\_\_\_\_\_\_\_\_\_.

a. Coincidental Cohesion

b. Functional Cohesion

c. Temporal Cohesion

d. Logical Cohesion

10. The process to gather the software requirements from client, analyze and document them is known as \_\_\_\_\_..   
a. Feasibility Study  
b. Requirement Gathering  
c. Requirement Engineering

d. System Requirements Specification

11 Which of the following is the first step of SDLC?

Coding

Design

Preliminary Investigation and Analysis

Testing

12 Symptoms of the software crisis would include

Software delivered behind schedule

Software exceeding cost estimate

Unreliable

All of the above

13 The principle of detecting errors as close to their points of commitment as possible is known as

Phase Overlap

Phase Distribution of errors

Phase Containment of errors

Phase Detection of errors

14 Which one of the following activity spans all stages of a software development life cycle (SDLC)

Coding

Design

Project Management

Testing

15 The angular dimension of the spiral model does not represent which one of the following?

1. Cost incurred so far
2. Number of features implemented so far
3. Progress in the implementation of the current feature
4. Number of risks that have been resolved so far

16 The extent of data interchange between two modules is called

1. Cohesion
2. Coupling
3. Structure
4. Union

17 Through a high level design

1. A problem is decomposed into a set of modules
2. The control relationship among the different modules is identified
3. The interfaces among different modules are identified
4. All of the above

18 A module is said to be functionally independent if it has

1. High cohesion and high coupling
2. Low cohesion and low coupling
3. High cohesion and low coupling
4. Low cohesion and high coupling

19 In a layered design, the module at the higher layers should not be visible to the modules at the lower layers. This is referred to as

1. Visibility  
   b) Invisibility

c)Abstraction

d)Control Abstraction

20 Which of the following is/are advantage(s) of Functional Independence

1. Error Isolation
2. Understandability
3. Scope of Reuse
4. All of the above

21 A good software design requires iterating over a series of steps called

Design Process

Design Modules

Design Activities

Design Interfaces

22 A module is said to have \_\_\_\_ cohesion, if all the elements of the module perform similar operations

Functional

Temporal

Logical

Procedural

23 The design document produced at the end of the design phase is the input to the

Coding Phase

Testing Phase

Analysis Phase

Maintenance Phase

24 Which of the following is the worst type of module coupling?  
a) Control Coupling  
b) Stamp Coupling  
c) External Coupling  
d) Content Coupling

25 Which of the following is the best type of module coupling?  
a) Control Coupling  
b) Stamp Coupling  
c) Data Coupling  
d) Content Coupling

26 A software engineer must design the modules with the goal of high cohesion and low coupling.  
a) True  
b) False

27 If all tasks must be executed in the same time-span, what type of cohesion is being exhibited?  
a) Functional Cohesion  
b) Temporal Cohesion  
c) Functional Cohesion  
d) Sequential Cohesion

28 In what type of coupling, the complete data structure is passed from one module to another?  
a) Control Coupling  
b) Stamp Coupling  
c) External Coupling  
d) Content Coupling