# SOFTWARE ENGINEERING MCQS

- 1. What is the first step in the software development lifecycle?
- A. System Design
- B. Coding
- C. System Testing

# D. Preliminary Investigation and Analysis

- 2. What does the study of an existing system refer to?
- A. Details of DFD
- B. Feasibility Study

# C. System Analysis

- D. System Planning
- 3. Which of the following is involved in the system planning and designing phase of the Software Development Life Cycle (SDLC)?
- A. Sizing
- B. Parallel run
- C. Specification freeze

### D. All of the above

- 4. What is the major drawback of the Spiral Model?
- A. Higher amount of risk analysis

# B. Doesn't work well for smaller projects

- C. Additional functionalities are added later on
- D. Strong approval and documentation control

5.	Model selection is based on
A.	Requirements
В.	Development team & users
C.	Project type & associated risk
D.	All of the above
6.	Which of the following models doesn't necessitate defining requirements at the earliest in the lifecycle?
A.	RAD & Waterfall
В.	Prototyping & Waterfall
C.	Spiral & Prototyping
D.	Spiral & RAD
7.	Which of the following model will be preferred by a company that is planning to deploy an advanced version of the existing software in the market?
A.	Spiral
В.	Iterative Enhancement
C.	RAD
D.	Both (b) and (c)
8.	Which of the following is the Characteristics of good software?
A.	Transitional
В.	Operational
C.	Maintenance
D.	All of the above
A. B. C.	What are attributes of good software ? Software functionality Software development Software maintainability Both A and C

- 10. Which one of the following models is not suitable for accommodating any change?
- A. Spiral Model
- B. Prototyping Model
- C. Incremental Model
- D. Waterfall Model
- 11. Which one of the following is not a phase of Prototyping Model?
- A. Quick Design
- **B.** Coding
- C. Prototype Refinement
- D. Engineer Product
- 12. SDLC stands for

# A. Software Development Life Cycle

- B. System Development Life cycle
- C. Software Design Life Cycle
- D. System Design Life Cycle
- 13. Which two models doesn't allow defining requirements early in the cycle?
- A. Waterfall
- **B. Prototyping & Spiral**
- C. Prototyping
- D. Waterfall & Spiral
- 14. Which of the following life cycle model can be chosen if the development team has less experience on similar projects?
- A. Spiral
- B. Waterfall
- C. RAD
- D. Iterative Enhancement Model
- 15. Spiral Model has high reliability requirements.
- A. True
- B. False
- 16. What are the types of requirements?
- A. Availability
- B. Reliability

- C. Usability
- D. All of the mentioned
- 17. Select the developer-specific requirement?
- A. Portability
- B. Maintainability
- C. Availability
- D. Both Portability and Maintainability
- 18. FAST stands for
- A. Functional Application Specification Technique
- B. Fast Application Specification Technique
- C. Facilitated Application Specification Technique
- D. None of the mentioned
- 19. SRS stands for
- A. System Register Software
- B. Software Requirement System
- C. Software Requirement Specification
- D. None
- 20. Which one of the following is a functional requirement?
- A. Maintainability
- B. Portability
- C. Robustness
- D. None of the mentioned
- 21. Which of the following property does not correspond to a good Software Requirements Specification (SRS) ?
- A. Verifiable
- **B.** Ambiguous
- C. Complete
- D. Traceable

- 22. Which of the following property of SRS is depicted by the statement: "Conformity to a standard is maintained"?
- A. Correct

# **B.** Complete

- C. Consistent
- D. Modifiable
- 23. The SRS is said to be consistent if and only if
- A. its structure and style are such that any changes to the requirements can be made easily while retaining the style and structure
- B. every requirement stated therein is one that the software shall meet
- C. every requirement stated therein is verifiable

# D. no subset of individual requirements described in it conflict with each other

- 24. Which of the following statements about SRS is/are true?
- i. SRS is written by customer
- ii. SRS is written by a developer
- iii. SRS serves as a contract between customer and developer
- A. Only i is true
- B. Both ii and iii are true
- C. All are true
- D. None of the mentioned
- 25. Consider the following Statement: "The product should have a good human interface." What characteristic of SRS is being depicted here?
- A. Consistent

# **B. Non-Verifiable**

- C. Correct
- D. Ambiguous
- 26. Which of the following word correctly summarized the importance of software design?

# A. Quality

- B. Complexity
- C. Efficiency

- D. Accuracy
- 27. The spiral model was originally proposed by
- A. IBM
- **B. Barry Boehm**
- C. Pressman
- D. Royce
- 28. How is Incremental Model different from Spiral Model?

# A. Progress can be measured for Incremental Model

- B. Changing requirements can be accommodated in Incremental Model
- C. Users can see the system early in Incremental Model
- D. All of the mentioned
- 29. What are the characteristics of software?
- A. Software is developed or engineered; it is not manufactured in the classical sense.
- B. Software doesn't "wear out ".
- C. Software can be custom built or custom build.
- D. All mentioned above
- 30. Compilers, Editors software come under which type of software?

# A. System software

- B. Application software
- C. Scientific software
- D. None of the above
- 31. You are working as a project manager. Your Company wants to develop a project. You are also involved in planning team. What will be your first step in project planning?

# A. Establish the objectives and scope of the product.

- B. Determine the project constraints.
- C. Select the team.
- D. None of the above.
- 32. What is a Software?
- A. Software is set of programs
- B. Software is documentation and configuration of data

# C. Both a and b

- D. None of the mentioned
- 33. Which of these does not account for software failure?
- A. Increasing Demand
- B. Low expectation

# C. Increasing Supply

- D. Less reliable and expensive
- 34. What are attributes of good software?
- A. Software maintainability
- B. Software functionality
- C. Software development
- D. a and b
- 35. What is the main aim of Software engineering?
- A. Reliable software
- B. Cost effective software
- C. Reliable and cost effective software
- D. None of the above
- 36. Software deteriorates rather than wears out because
- A. Software suffers from exposure to hostile environments
- B. Defects are more likely to arise after software has been used often
- C. Multiple change requests introduce errors in component interactions
- D. Software spare parts become harder to order
- 37. Most software continues to be custom built because
- A. Component reuse is common in the software world.
- B. Reusable components are too expensive to use.
- C. Software is easier to build without using someone else's components.
- D. Off-the-shelf software components are unavailable in many application domains.
- 38. The nature of software applications can be characterized by their information
- A. Complexity
- B. content
- C. determinacy
- D. both b and c

- 39. Which of the following is an important characteristics of useful and effective information?
- A. Accuracy
- **B.** Timeliness
- C. Completeness
- D. All of these
- 40 In the Design phase, which is the primary area of concern?
- A. Architecture
- B. Data
- C. Interface
- D. All of the Mentioned
- 41 Which is the best coupling for good software?
- A. Content Coupling
- **B.** Data Coupling
- C. Stamp Coupling
- D. Control Coupling
- 42 Which is the best cohesion for good software?
- A. Logical Cohesion
- B. Procedural Cohesion
- C. Temporal Cohesion
- **D.** Functional Cohesion
- 43. Individual module testing is done By
- A. Integration Testing
- B. System Testing
- C. Unit Testing
- D. None of The Above
- 44. Which of the following is not a part of maintancance phase
- A. Correction
- B. Adaption
- C. Security
- D. Prevention
- 45. Which is the most important feature of Spiral Model
- A. Quality Management
- **B.** Risk Management
- C. Performance Management
- D. Efficience Management

46. A. B. C. <b>D.</b>	Which of the following is not a diagram studied in Requirement Analysis? Use Cases Entity Relationship Diagram State Transition Diagram Activity Diagram
47. A <b>B</b> C D	Which of the following property does not correspond to a good Software Requirements Specification (SRS) ? Verifiable Ambiguous Complete Traceable
48.	The SRS document is also known as specification.
<b>A</b> B C D	black-box white-box grey-box none of the mentioned
49. A <b>B</b> C D	Which one of the following is a requirement that fits in a developer's module ? Availability Testability Usability Flexibility
50. A. B. C. <b>D.</b>	Actual programming of software code is done during the step in the SDLC.  Maintenance and Evaluation  Design  Analysis  Devlopement and Documentation
<b>51</b> A. <b>B.</b> C. D.	Debugging is: creating program code finding and correcting errors in the program code identifying the task to be computerized creating the algorithm
52.	The importance of software design can be summarized in a single word which is:
А В <b>С</b>	Efficiency Accuracy Quality

D	Complexity
53 A <b>B</b> C D	is a measure of the degree of interdependence between modules  Cohesion  Coupling  None of the mentioned  All of the mentioned
54 A B <b>C</b> D	Which of the following is the worst type of module coupling? Control Coupling Stamp Coupling External Coupling Content Coupling
55 A <b>B</b> C D	A module having high cohesion and low coupling is known as  Functional dependence  Functional independence  Sequential Independence  Temporal Independence
56 A B C <b>D</b>	Which of the following is not a type of cohesion? Coincidental Temporal Communication Modular
57 A <b>B</b> C D	Which of the following has lowest Cohesion? Logical Coincidental Functional Procedural
58 <b>A</b>	Which among the following is correct order of cohesion from low to high? coincidental < logical < temporal < functional
B.	coincidental < temporal < logical < functional
C.	temporal < coincidental < logical < functional
D.	coincidental > logical > temporal > functional
59 <b>A.</b>	Two modules are coupled if they share some global data items.  Common

B.	stamp
C.	content
D.	Data
60 <b>A.</b> B. C. D.	Top-down decomposition is followed in  function oriented design  object oriented design  both of the above  none of the above
61. A. <b>B.</b> C. D.	How many type of symbols are used for constructing DFDs?  7  5  6  3
62. A. B. <b>C.</b> D.	A Table or Data store in DFD is represented using Rectangle Square Parallel Line Circle
63. A. <b>B.</b> C. D.	The mechanism that allows us to represent a problem in a simpler way by considering aspects relevant to purpose and omitting all other detail is known as Inheritance  Abstraction Aggregation Polymorphism
64. A. B. C. D.	Which of these comes under the Modularity principle? Small modules Coupling Cohesion All of the mentioned

# 302- Software Engineering-I

1. Software means
Collection of programs only
Collection of data only
Collection of programs, data structure and associated documentation
None of the above
2. Pick the odd one out.
Windows XP
Flipcart.com
RAM
ERP
3. Which of the following is/are the characteristics of Software?
(i) The software is engineered or developed, it is not manufactured in classical sense.
(ii) The Software doesn't wear-out.
(iii) Software is tangible whereas hardware is not tangible.
(i) Only i
(ii) Only ii
(iii) Both (i) and (ii)
4. The initial failure rate of is high.
Both software & hardware
Only software
Only hardware
Neither software nor hardware
5. The failure rate of software spikes due to
Errors in software
Change in software
Environmental maladies
Cost
6. Software doesn't wear-out, but it does
Emerge
Become useless
Deteriorate
Reengineered

7. My people have state-of-art software development tools, after all we buy them a newest computers. Identify the type of myth.
Management myths
Customer myths
Practitioner's myths
User's myth
8. Project requirement continually change, but change can be easily accommodated because software is
flexible. Identify the type of myth.
Management myths
Customer myths
Practitioner's myths
User's myth
9. Once we write the program and get it to work, our job is done. Identify the type of myth.
Management myths
Customer myths
Practitioner's myths
User's myth
10. The base that supports the software engineering is a layer.
Tools
Methods
Process
Quality focus
11. Which of the following is/are the goals of software engineering?
(i) Reduce cost and time for software development.
(ii) Developing high quality software.
(i) Only
(ii) Only
Both (i) and (ii)
None of these
12. Which of the following is correct order for generic framework activities?
Development, Definition, Support
Definition, Development, Support
Support, Definition, Development
Definition, Support, Development
Seminary supports bevelopment

13. Adding new features in the existing software is known as  Prevention
Enhancement
Correction
Adaption
14. Waterfall Process Model can be used for software development when the
Requirements are not known
New system is to be developed
Requirements are well understood
None of the above
15. Which of the following model is appropriate to accommodate changes?
Waterfall model
Prototype model
Both a & b
None of the above
16. Prototype model is
Iterative
Linear
Sequential
None of the above
17. The metation "Define hefere Design and Design before Code" is justified for which model?
17. The notation "Define before Design and Design before Code" is justified for which model?
Prototype model WINWIN model
RAD model
Waterfall Model
18 is the most critical factor affecting the quality of the software.
Analysis
Design
Coding
Testing
19. The model helps software engineer and customer to better understand the requirements.
Prototype
Waterfall
Rapid application development
Incremental model

20.	Which model suggests a sequential approach to software development?
Pro	totype model
Wa	terfall Model
WII	NWIN model
RAI	D model
21.	QFD stands for:  Quality Function Deployment  Quality Function Development  Quality Financial Deployment  Quick Function Deployment
22.	The absence of type of requirements in QFD will be a cause of dissatisfaction.  Normal  Expected  Exciting  None of these
23.	Which of the following is the core of the analysis model? ER-Diagram  Data Dictionary  Data Flow Diagram  Control Diagram
24.	A description of each function in Data Flow Diagram is presented by  Data Object Description  Control Specification  Process Specification  Data Dictionary
25.	Level '0' DFD is also called  Context level DFD  Conceptual level DFD  All of the above  None of the above
26.	Component of SRS specify the expected behavior of the system.  Functional Requirements  Performance Requirements  Design constraints imposed on an implementation  External interfaces
27.	Which of the following is not a characteristic of an SRS? Complete Correct Ambiguous Traceable

28. Which of the following model(s) is/are iterative?  Prototype	
Incremental Spiral	
All of the above	
29. Which of the following is not part of design model?	
Data design	
Procedural Design	
E-R Diagram	
Architectural design	
30. Which of the following is not a design principle?	
The design should not suffer from tunnel vision.	
The design should not be traceable to analysis model.	
The design should not reinvent the wheel.	
The design should exhibit uniformity and integration.	
31. Which of the following formula is true with regards to modularity?  E(P1 + P2) > E(P1) + E(P2)	
E(P1 + P2) < E(P1) + E(P2)	
32. If number of modules increases then the total software cost increases due to cost of	·
Integration	
Testing	
Design	
33. Which model address behavioral aspect of program structure? Structural model	
Framework model	
Dynamic model	
Process model	
34is a measure of the number of modules that are directly controlled by another	
module.	
Fan-out Fan-in	
35. Functional independence is direct outgrowth of,	
Abstraction, refinement and program structure	
Modularity, abstraction and software procedure	
Modularity, abstraction and information hiding	
36. Independence is measured using which qualitative criteria.  Cohesion	
Coupling Both	

Neither of them

37. Which of the following coupling is best?

Control

External

Content

Data

38. \_\_\_\_\_\_\_ is the strongest cohesion.

Sequential

Functional

Coincidental

Procedural

39. If and while statement in some programming language is an example of \_\_\_\_\_\_\_ abstraction.

Data

Procedural

40. \_\_\_\_\_ and \_\_\_\_ are the input for data design from analysis model.

DFD, DD

DD, STD

ERD, DD

Control

DFD, SPEC

- 1. In DFD, which symbol is used to show an external entity?
  - a. Arrow
  - b. Circle
  - c. Pentagon
  - d. Rectangle

#### ANS: d

- 2. FAST stands for
  - a. Facilitated Application Software Technique
  - b. Functional Application Software Technique
  - c. Facilitated Application Specification Technique
  - d. None of These

#### ANS: c

- 3. The process of developing a software product using software engineering principles and methods is referred to as
  - a. Software myths
  - b. Scientific Product
  - c. Software Development
  - d. None of above

#### ANS: c

- 4. Which of the following is a tool in design phase?
  - a. Abstraction
  - b. Refinement
  - c. Information Hiding
  - d. All of these

#### ANS: d

- 5. The major shortcomming of waterfall model is:
  - a. the maintenance of system
  - b. The system testing
  - c. The difficult in accommodating changes after feasibility analysis
  - d. The difficult in accommodating changes after requirement analysis

#### ANS: a

- 6. What is Software requirement?
  - a. It is nothing but customer need
  - b. it is specification that customer wants in the proposed software
  - c. it is minimum functionality of the software
  - d. it is used for testing

# ANS: b

- 7. What is full form of SRS?
  - a. Software Readiness system
  - b. Software Requirement Specification
  - c. Software Repair and Simplification
  - d. Software Remedy and Specification

### ANS: b

- 8. What is questionnaire?
  - a. It is list of requirements
  - b. It is list of wants
  - c. It is list of questions/queries
  - d. None of these

### ANS: c

- 9. The relationship of data elements in a module is called
  - a. Coupling
  - b. Modularity
  - c. Cohesion
  - d. Granularity

#### ANS: a

- 10. Which level of DFD highlights the system as a whole?
  - a. First Level
  - b. Context Level
  - c. Second Level
  - d. None of these

#### ANS: b

- 11. Project risk factor is considered in which model
  - a. Spiral Model
  - b. Waterfall Model
  - c. Prototyping Model
  - d. None of the above

#### ANS: a

- 12. A desirable property of module is
  - a. Independency
  - b. Low cohesion
  - c. High Coupling
  - d. Multifunctional

#### ANS: b

- 13. There are different phase available in SDLC. Find out which phase is not available in software life cycle?
  - a. Coding
  - b. Testing
  - c. Maintenance
  - d. Abstraction

### ANS: d

- 14. Applications software
  - a. is used to control the operating
  - b. Includes programs designed to help programs
  - c. Performs a specific task for computer users
  - d. None of these

#### ANS: c

- 15. Software does not wear-out in the traditional sense of the term, but software does tend to deteriorate as it evolves, because :
  - a. Software suffers from exposure to hostile environments
  - b. Multiple change requests introduce errors in component interactions
  - c. Defects are more likely to arise after software has been used often
  - d. Software spare parts become harder to order.

### ANS: b

- 16. Which of the following terms describes testing?
  - a. Finding broken code
  - b. Evaluating deliverable to find errors
  - c. A stage of all projects
  - d. None of above

#### ANS: b

- 17. What are the different levels of Testing
  - a. Integration Testing
  - b. Unit Testing
  - c. System Testing
  - d. All of Above

### ANS: d

- 18. Cyclomatic complexity is
  - a. White-box Testing
  - b. Black box Testing
  - c. Grey box Testing
  - d. All of the above

#### ANS: a

- 19. \_\_\_\_\_is not suited to accommodate any change.
  - a. Spiral Model
  - b. Prototyping Model
  - c. Incremental Model
  - d. Waterfall Model

# ANS: d

- 20. Which of the following techniques emphasizes breaking large and complex task into successively smaller sections?
  - a. Object Oriented Programming
  - b. Micro Programming
  - c. Partitioning
  - d. Abstraction

ANS: c

- 1. Which of the following term describes testing?
- a) Finding broken code

## b) Evaluating deliverable to find errors

- c) A stage of all projects
- d) None of the mentioned
- 2. What is Cyclomatic complexity?
- a) Black box testing

# b) White box testing

- c) Yellow box testing
- d) Green box testing
- 3. Alpha testing is done at

# a) Developer's end

- b) User's end
- c) Developer's & User's end
- d) None of the mentioned
- 4. The testing in which code is checked
- a) Black box testing

# b) White box testing

- c) Red box testing
- d) Green box testing
- 5. Acceptance testing is also known as
- a) Grey box testing
- b) White box testing
- c) Black box Testing
- d) Beta testing
- 6. Which of the following is non-functional testing?
- a) Black box testing

# b) Performance testing

- c) Unit testing
- d) None of the mentioned
- 7.Beta testing is done at
- a) User's end
- b) Developer's end
- c) User's & Developer's end
- d) None of the mentioned
- 8. Unit testing is done by
- a) Users
- b) Developers
- c) Customers
- d) None of the mentioned

9.Behavioral testing is
a) White box testing
b) Black box testing
c) Grey box testing
d) None of the mentioned
10. Which of the following is black box testing
a) Basic path testing
b) Boundary value analysis
c) Code path analysis
d) None of the mentioned
4, 114 114 114 114 114 114 114 114 114 1
11.In which testing level the focus is on customer usage?
a) Alpha Testing
b) Beta Testing
c) Validation Testing
d) Both Alpha and Beta
12 Coftware Testing with real data in real equipment is leaven
12.Software Testing with real data in real environment is known as
a) alpha testing
b) beta testing
c) regression testing
d) none of the mentioned
40 MHz - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
13.What is testing process' first goal?
a) Bug prevention
a) Bug prevention b) Testing
a) Bug prevention b) Testing c) Execution
a) Bug prevention b) Testing
a) Bug prevention b) Testing c) Execution d) Analyses
a) Bug prevention b) Testing c) Execution d) Analyses  14. Which is a black box testing technique appropriate to all levels of testing?
a) Bug prevention b) Testing c) Execution d) Analyses  14. Which is a black box testing technique appropriate to all levels of testing? a) Acceptance testing
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a) Bug prevention b) Testing c) Execution d) Analyses  14. Which is a black box testing technique appropriate to all levels of testing? a) Acceptance testing b) Regression testing c) Equivalence partitioning
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a) Bug prevention b) Testing c) Execution d) Analyses  14. Which is a black box testing technique appropriate to all levels of testing? a) Acceptance testing b) Regression testing c) Equivalence partitioning d) Quality assurance  15. Effective testing will reduce cost. a) maintenance
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17.Unit testing is done by
a) Users
b) Developers
c) Customers
d) None of the mentioned
18. Which of the following is non-functional testing?
a) Black box testing
b) Performance testing
c) Unit testing
d) None of the mentioned
19.Alpha testing is done at
a) Developer's end
b) User's end
c) Developer's & User's end
d) None of the mentioned
20.validation is done by
a) Users
b) Developers
<mark>c) Tester</mark>
d) None of the mentioned
21.Verification is done by
a) Customers
b) Developers
c) Both users & developer
d) None of the mentioned
22 William to the Best consists of our of the constant of the
22. Which is the Best approch or method of changeover?
a) Dual system method
b) Direct method
c) Parallel method
d) Pilot apporoch
23.Dual system method also known as
a) Direct system method
b) Parrallel system method
c) Pilot system method
d) Phase in method
a,
24. White Box Testing also known as
a) Glass box testing
b) Open box testing
c) Clear box testing
d) All mentioned above

25.Black Box Testing also known as \_\_\_\_\_.

- a) Closed box testing
- b) Behavioral testing
- c) Functional testing
- d) All mentioned above