

## 22413 Software Engineering MCQ Question Banks with Answers

#QB4

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1) Which of these software characteristics are used to determine the scope of a software project?

- a. Only performance.
- b. Only context.
- c. Information objectives, function, performance
- d. None of the above.

ANSWER: Information objectives, function, performance

2) Which level of sub-system is used of an application?

- a. Application level

b. Component level

c. Modules level

d. None of the above

ANSWER: Component level

3) SDLC is not a well-defined, structured sequence of stages in software engineering to develop the intended software product.

a. True

b. False

ANSWER: False

4) In the Empirical Estimation Technique which model is developed by Barry W. Boehm?

a. Putnam model

b. COCOMO

c. Both A & B

d. None of the above

ANSWER: COCOMO

5) From the following select the correct option that is used to display the available option for selection.

a. Check-box

b. Text-box

c. Button

d. Radio-Button

ANSWER: Radio-Button

6) CMM model in Software Engineering is a technique of \_\_\_\_\_ .

a. Develop the software.

b. Improve the software process.

c. Improve the testing process.

d. All of the above.

ANSWER: Improve the software process.

7) Transformers is one of the broad category used to classify operations.

a. True

b. False

ANSWER: False

8) The tools that support different stages of software development life cycle are called as \_\_\_\_\_ .

a. CASE Tools

b. CAME tools

c. CAQE tools

d. CARE tools

ANSWER: CASE Tools

9) Which is not a step of Requirement Engineering?

- a. Requirements elicitation
- b. Requirements analysis
- c. Requirements design
- d. Requirements documentation

ANSWER: Requirements design

10) Which of the level carries out goal, objective, work tasks, work products and other activities of the software process?

- a. Performed
- b. INCOMPLETE
- c. Optimized
- d. Quantitatively Managed

ANSWER: Performed

11) If you have no clue of how to improve the process for the quality software which model is used?

- a. A Continuous model
- b. A Staged model
- c. Both A & B
- d. None of the above

ANSWER: A Staged model

12) In Software validation, requirements can be checked against following conditions:

- 1) If they can be practically implemented
- 2) If they are valid and as per functionality and domain of software
- 3) If there are any ambiguities
- 4) If they are completed

a. True

b. False

ANSWER: True

13) In OOD, the attributes(data variables) and methods( operation on the data) are bundled together is called \_\_\_\_\_ .

a. Classes

b. Objects

c. Encapsulation

d. Inheritance

ANSWER: Encapsulation

14) Which design defines the logical structure of each module and their interfaces that is used to communicate with other modules?

a. High-level designs

b. Architectural designs

- c. Detailed design
- d. All mentioned above

ANSWER: Detailed design

15) Which tools are used in Implementation, Testing and Maintenance?

- a. Upper case tools
- b. Lower case tools
- c. Integrated case tools
- d. None of the above

ANSWER: Lower case tools

16) Which tools are used for project planning, cost, effort estimation, project scheduling and resource planning?

- a. Process modeling tools
- b. Project management tools
- c. Diagram tools
- d. Documentation tools

ANSWER: Project management tools

17) Which design deals with the implementation part in which it shows a system and its sub-systems in the previous two designs?

- a. Architectural design
- b. High-level design

c. Detailed design

d. Both A & B

ANSWER: Detailed design

18) Modularization is a technique to divide a software system into multiple discrete and independent modules.

a. True

b. False

ANSWER: True

19) What is the project and process level that provides the Quality Metric benefit?

a. Defect amplification

b. Defect removal efficiency

c. Measuring quality

d. All mentioned above

ANSWER: Defect removal efficiency

20) Cohesion metrics and coupling metrics are metrics in which level of design?

a. User interface design

b. Pattern-based design

c. Architectural design

d. Component-level design

ANSWER: Component-level design

21) Which condition defines the circumstances for a particular operation is valid?

- a. Postcondition
- b. Precondition
- c. Invariant
- d. None of the above

ANSWER: Precondition

22) Which subsystem implements a repository that encompasses the following elements,

- 1) Content database
  - 2) Database capabilities
  - 3) Configuration management functions
- a. The publishing subsystem
  - b. The management subsystem
  - c. The collection subsystem
  - d. None of the above

ANSWER: The management subsystem

23) Which is not a SQA activity?

- a. Black box testing
- b. White box testing



c. Integration testing

d. Unit testing

ANSWER: White box testing

24) PAD is metric indicates the number of classes that can access another class attributes and a violation of encapsulation.

a. True

b. False

ANSWER: True

25) Find out which phase is not available in SDLC?

a. Coding

b. Testing

c. Maintenance

d. Abstraction

ANSWER: Abstraction

c. Measure

d. None of the above

ANSWER: Measure

16) Which tools are helpful in all the stages of SDLC, for requirement gathering to testing and documentation?

- a. Upper case tools
- b. Lower case tools
- c. Integrated case tools
- d. None of the above

ANSWER: Integrated case tools

17) OOD languages provide a mechanism where methods performing similar tasks but vary in arguments, and that can be assigned to the same name is called \_\_\_\_\_ .

- a. Classes
- b. Object
- c. Polymorphism
- d. Encapsulation

ANSWER: Polymorphism

18) Abbreviate the term SMI.

- a. Software Maturity Index
- b. Software Model Instruction
- c. Software Maturity Instruction
- d. Software Model Index

ANSWER: Software Maturity Index

19) What computer-based system can have a profound effect on the design that is chosen and also the implementation approach will be applied?

- a. Scenario-based elements
- b. Class-based elements
- c. Behavioural elements
- d. Flow-oriented elements

ANSWER: Behavioural elements

20) SRS is a document created by system analyst after the requirements are collected from various stakeholders.

- a. Yes
- b. No

ANSWER: Yes

21) Which structures in Organizational Paradigms on a team loosely and depends on individual initiative of the team members?

- a. Closed paradigm
- b. Open paradigm
- c. Random paradigm
- d. Synchronous paradigm

ANSWER: Random paradigm

22) Give the name to diagram that represents the flow of activities described by the use cases and at the same time the captors are involved in UML .

- a. State diagram

- b. Swim lane diagram
- c. Activity diagram
- d. Component diagram

ANSWER: Swim lane diagram

23) Which phase is refers to the support phase of software development?

- a. Acceptance Phase.
- b. Testing.
- c. Maintenance.
- d. None of the above.

ANSWER: Maintenance.

24) Which model is also called as the classic life cycle or the Waterfall model?

- a. Iterative Development
- b. Linear Sequential Development
- c. RAD Model.
- d. Incremental Development

ANSWER: Linear Sequential Development

25) What is the average effective global activity rate in an evolving E-type system is invariant over the lifetime of the product?

- a. Self-regulation

b. Reducing quality

c. Feedback systems

d. Organizational stability

ANSWER: Organizational stability

**Happy Learning!**

