

Shivaji University, Kolhapur
Question Bank For Mar 2022 (Summer) Examination

Subject Code: 79143 Subject Name: Software Engineering

MCQs

- 1) Output produced after a phase is called _____.
A) Proper B) Correct C) Workproduct D) None
Answer: C
- 2) S/w built for hobby purpose is called as _____.
A) Industrial strength s/w B) Good s/w C) Student s/w D) Hobby s/w
Answer: C
- 3) _____ means a project whose budget and schedule is out of control.
A) Runaway B) Good project C) Successful project D) None
Answer: A
- 4) Changes done in software during development phase is called as _____.
A) Maintenance B) Rework C) Regression Testing D) None
Answer: B
- 5) Productivity is measured in terms of _____.
A) LOC B) Software size C) Memory required D) All
Answer: A
- 6) _____ means the capability to modify the software so as to do corrections, improvement.
A) Portability B) Efficiency C) Reliability D) Maintainability
Answer: D
- 7) Executing old test case to see that no new errors have been introduced is called as _____.
A) Maintenance B) Cost C) Regression Testing D) Scaling
Answer: C
- 8) Project developed with less cost and time and with high quality is called as _____.
A) Unsuccessful Project B) Successful Project C) Both A&B D) None
Answer: B
- 9) _____ means problem in a software that causes the software to crash or will give wrong output.
A) Bug B) Error C) Defect D) All
Answer: C
- 10) SEPG stands for _____.
A) S/w Engg. Project Group B) S/w Engg. Process Group
C) S/w Engg. Part Group D) None
Answer: B
- 11) _____ is basic unit of _____ model.
A) Iteration, Iterative B) Stage, Spiral C) Timebox, Timeboxing
D) Prototype, Prototyping
Answer: C

12) Quality of a software contains which among the following

- A) Functionality B) Usability C) Portability D) All

Answer: D

13) Which among the following phase is present in Project Management Process

- A) Planning B) Monitoring & Control C) Termination Analysis D) All

Answer: D

14) Which among the following document is produced in Waterfall model

- A) Requirements B) Software manuals C) Design D) All

Answer: D

15) Big bang approach is a disadvantage of which software development process Model

- A) Waterfall Model B) Prototyping Model C) Timebox Model
D) Iterative Development Model

Answer: A

16) In IEEE second E stands for _____.

- A) Electrical B) Electronics C) Engineers D) Easy

Answer: B

17) If a time duration of Timebox is 9 week. Suppose there are 3TB each having 3 stages then time taken TB2 is _____ week.

- A) 9 B) 12 C) 18 D) 20

Answer: B

18) _____ is an Engineer who gathers and analyze customer requirement.

- A) Analyst B) Client C) Developer D) All

Answer: A

19) _____ is a activity to talk with client and study existing document if present and collect all the possible information regarding the system.

- A) Requirement gathering B) Requirement analyzing
C) Requirement specification D) None

Answer: A

20) Who among the following use SRS document to ensure the total cost required to develop a software and also to do the planning.

- A) Maintenance Engineer b) Project Manager C) Test Engineer
D) Software Developer

Answer: B

21) Software process is an _____ entity.

- A) Dynamic B) Static C) Good D) None

Answer: A

22) SRS document contains _____.

- A) Functional Requirements B) Anomalies C) Incompleteness D) All

Answer: A

23) Which among the following users use SRS document

- A) Users B) Software developer C) User documentation D) All

Answer: D

24) Problem with software requirement is _____.

- A) Anomalies B) Inconsistency C) Incompleteness D) All

Answer: D

25) SRS stands for _____.

- A) Software Ready Specification
- B) Software Requirement Software
- C) Software Resource Specification
- D) None

Answer: D

26) Which among the following is an error in SRS

- A) Omission
- B) Inconsistency
- C) Ambiguity
- D) All of the above

Answer: D

27) Which among the following is a technique used to represent complex logic in software engineering.

- A) Decision Tree
- B) Decision Table
- C) Both A&B
- D) None

Answer: C

28) Which among the following is a characteristic of good SRS document

- A) It should be concise
- B) It should be traceable
- C) It should be structured
- D) All of the above

Answer: D

29) Which among the following is a characteristic of bad SRS document

- A) It should be concise
- B) It should be traceable
- C) Ambiguity
- D) All of the above

Answer: C

30) Which among the following comes under non-functional requirement

- A) Maintainability
- B) Portability
- C) Usability
- D) All of the above

Answer: D

31) Which among the following is common method used for validation of requirement.

- A) Inspection of requirement
- B) Review of requirement
- C) Both A&B
- D) None

Answer: C

32) The objective of _____ activity is to ensure that the SRS reflects actual requirements accurately and correctly.

- A) Requirement gathering
- B) Requirement Analyzing
- C) Validation
- D) None of the above

Answer: C

33) In PERT T stands for _____

- A) Team
- B) Term
- C) Testing
- D) Technique

Answer: D

34) In the Gantt chart white part shows _____ time.

- A) Minimum
- B) Earliest start
- C) Slack
- D) Finish

Answer: C

35) _____ takes the responsibility of choosing their team

- A) Management
- B) Software Project Manager
- C) Company
- D) All

Answer: B

36) _____ should be done before development of project and to do this customer requirements must be clearly understood.

- A) Planning
- B) Requirement collection
- C) Testing
- D) Verification

Answer: A

37) Which among the following chart is used to allocate resources

- A) PERT B) Gantt C) WBS D) All

Answer: B

38) In Software Engineering CMM stands for _____.

- A) Capability Maturity Machine B) Capability Machine Model
B) Code Maturity Machine D) Capability Maturity Model

Answer: D

39) Which among the following is the responsibility of Project Manager

- A) Assigning task to team members B) Resolving issues
B) Responsible for planning and scheduling D) All of the above

Answer: D

40) Which among the following is the principle of effective project planning

- A) Risk Analysis B) Meeting quality standards
C) Flexibility D) All of the above

Answer: D

41) In WBS the task that takes 2weeks or less than 2 week to execute is called as _____.

- A) Parent node B) Root node C) Leaf node D) None of the above

Answer: C

42) A task with _____ slack is considered as critical task.

- A) 0 B) 1 C) 2 D) 3

Answer: A

43) 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

Answer: B

44) White Box techniques are also classified as

- A) Design based testing B) Structural testing
C) Error guessing technique D) None of the mentioned

Answer: B

45) What are the various Testing Levels?

- A) Unit Testing B) System Testing
C) Integration Testing D) All of the mentioned

Answer: D

46) How is reliability and failure intensity related to each other?

- A) direct relation B) inverse relation
C) no relation D) none of the mentioned

Answer: B

47) How many product quality factors are proposed in McCall quality model?

- A) 2 B) 3
C) 11 D) 8

Answer: B

48) Which one of the following is not a software quality model?

- A) ISO 9000 B) McCall model
C) Boehm model D) ISO 9126

Answer: A

49) What is MTTF?

- A) Maximum time to failure B) Mean time to failure
C) Minimum time to failure D) None of the mentioned

Answer: B

50) How is software reliability defined?

- A) time
- B) efficiency
- C) quality
- D) speed

Answer: A

51) The CMM model is a technique to_____

- A) automatically maintain the software reliability
- B) improve the software process
- C) test the software
- D) all of the mentioned

Answer: B

Unit 1

1. Define the term software: State and briefly explain software quality attributes.
2. Write a note on component of software processes
3. With a neat diagram explain Waterfall software development process model
4. List down software development process model. Explain prototype model.
5. Explain iterative software development process in detail.
6. Write and explain Timebox software development process model.
7. State the meaning of project management process and briefly explain the 3 major phases of it.
8. Explain phased development of software engineering in detail.

Unit 2

1. Explain Value of good SRS.
2. Write a short note on requirement process.
3. What is SRS and explain desirable characteristics of an SRS.
4. Explain Components of an SRS.
5. Write a note on structure of Requirements documents.
6. Explain Data flow diagram with neat diagram.
7. Explain Entity Relationship diagram with neat diagram.
8. Write a note on validation, list and explain different types of errors in SRS.

Unit 3

1. What is planning? List and explain the responsibilities of project manager.
2. What is scheduling? List and explain the skills of project manager.
3. Write a note on principles of effective project planning.
4. List and explain the activities of project planning process.
5. With an example explain Gantt chart.
6. With an example explain PERT chart.
7. Write a note on CMM.
8. Write a note on risk management.
9. Write a note on project staffing.
10. Explain milestones with its advantages.

Unit 4

1. What do you mean by design methodology? Explain interaction coupling and component coupling.
2. Define coupling. State and explain different factors affecting coupling.
3. What is cohesion? Discuss various levels of cohesion.
4. Explain Open closed principle in details.
5. Explain structure charts in Function oriented design.
6. Explain the major steps involved in structured design methodology.
7. Write a short note on Object Oriented Design.
8. Explain the steps involved in creating object oriented design.
9. Explain detailed design.
10. Explain metrics.

Unit 5

1. Write a note on Coding.
2. Explain Code review in detail.
3. State and explain coding guidelines.
4. What is testing? How to test a program?
5. Explain Verification versus Validation.
6. Describe Unit Testing in detail.
7. Explain Black box testing in detail.
8. Explain White box testing in detail.
9. Write a note on program analysis tools.
10. What is integration testing? Explain in details.
11. Write a note on system testing.

Unit 6

1. Write a note on software reliability.
2. Explain SEI Capability maturity model.
3. Explain software quality management system.
4. Explain quality standards.
5. Discuss the concept ISO 9000 standards.
6. Classify all the principles of agile methods and Disadvantages in agile methods.
7. With neat diagram explain Extreme programming (XP) and its principles.
8. Write a note on Six sigma.
9. Write a short note on Agile Project Management.
10. Explain hardware versus software reliability.