

# Software-Engineering-MCQ

Software Engineering (Dr. A.P.J. Abdul Kalam Technical University)



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### SOFTWARE ENGINEERING

Software Engineering				
	Course-Outcome(CO)			
	At the end of course, the student will be able to			
	understand			
CO1	Explain various software characteristics and analyze different software Development Models.			
CO2	Demonstrate the contents of a SRS and apply basic software quality assurance practices to ensure that			
	design, development meet or exceed applicable standards.			
CO3	Compare and contrast various methods for software design			
CO4	Formulate testing strategy for software systems, employ techniques such as unit testing, Test driven			
	development and functional testing.			
CO5	Manage software development process independently as well as in teams and make use of Various			
	software management tools for development, maintenance and analysis.			
	DETAILED SYLLABUS			
Unit	Topic			
	Introduction: Introduction to Software Engineering, Software Components, Software Characteristics,			
	Software Crisis, Software Engineering Processes, Similarity and Differences from Conventional			
I	Engineering Processes, Software Quality Attributes. Software Development Life Cycle (SDLC) Models:			
Water Fall Model, Prototype Model, Spiral Model, Evolutionary Development Models, Itera				
	Enhancement Models.			
	Software Requirement Specifications (SRS): Requirement Engineering Process: Elicitation, Analysis,			
II	Documentation, Review and Management of User Needs, Feasibility Study, Information Modelling, Data			
Flow Diagrams, Entity Relationship Diagrams, Decision Tables, SRS Document, IEEE Standards for SR				
	Software Quality Assurance (SQA): Verification and Validation, SQA Plans, Software Quality			
	Frameworks, ISO 9000 Models, SEI-CMM Model.			
	Software Design: Basic Concept of Software Design, Architectural Design, Low Level Design:			
III	Modularization, Design Structure Charts, Pseudo Codes, Flow Charts, Coupling and Cohesion Measures,			
	Design Strategies: Function Oriented Design, Object Oriented Design, Top-Down and Bottom-Up Design.			
	Software Measurement and Metrics: Various Size Oriented Measures: Halestead's Software Science,			
	Function Point (FP) Based Measures, Cyclomatic Complexity Measures: Control Flow Graphs.			
	Software Testing: Testing Objectives, Unit Testing, Integration Testing, Acceptance Testing, Regression			
	Testing, Testing for Functionality and Testing for Performance, Top Down and Bottom-Up Testing			
IV	Strategies: Test Drivers and Test Stubs, Structural Testing (White Box Testing), Functional Testing (Black			
	Box Testing), Test Data Suit Preparation, Alpha and Beta Testing of Products. Static			
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	Testing Strategies: Formal Technical Reviews (Peer Reviews), Walk Through, Code Inspection,			
	Compliance with Design and Coding Standards.			
	Software Maintenance and Software Project Management: Software as an Evolutionary Entity, Need			
V	for Maintenance, Categories of Maintenance: Preventive, Corrective and Perfective Maintenance, Cost of			
	Maintenance, Software Re- Engineering, Reverse Engineering. Software Configuration Management			
	Activities, Change Control Process, Software Version Control, An Overview of CASE Tools. Estimation			
	of Various Parameters such as Cost, Efforts, Schedule/Duration, Constructive Cost Models (COCOMO),			
	Resource Allocation Models, Software Risk Analysis and Management.			

## **Software Engineering** Solved MCQ

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#### Unit-I

- 1. What is the first step in the software development lifecycle?
  - a. System Design
  - b. Coding
  - c. System Testing
  - d. Preliminary Investigation and Analysis

Answer: Option (d)

- What does the study of an existing system refer to?
  - a. Details of DFD
  - b. Feasibility Study
  - c. System Analysis
  - d. System Planning

Answer: Option (c)

- 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

Answer: Option (d)

- 4. What does RAD stand for?
  - a. Rapid Application Document
  - b. Rapid Application Development
  - c. Relative Application Development
  - d. None of the above

Answer: Option (b)

- 5. Which of the following prototypes does not associated with Prototyping Model?
  - a. Domain Prototype
  - b. Vertical Prototype

- c. Horizontal Prototype
- d. Diagonal Prototype

Answer: Option (d)

- 6. The major drawback of RAD model is \_
  - a. It requires highly skilled developers/designers.
  - b. It necessitates customer feedbacks.
  - c. It increases the component reusability.
  - a. Both (a) & (c)

Answer: Option (d)

- 7. Which of the following does not relate to Evolutionary Process Model?
  - a. Incremental Model
  - b. Concurrent Development Model
  - c. WINWIN Spiral Model
  - d. All of the above

Answer: Option (d)

- 8. 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

Answer: Option (b)

9. Model selection is based on \_\_\_\_\_

a. Requirements

- b. Development team & users
- c.Project type & associated risk
- d. All of the above

Answer: Option (d)

- 10. Which of the following option is correct?
  - a.The prototyping model facilitates the reusability of components.

- RAD Model facilitates reusability of components
- c.Both RAD & Prototyping Model facilitates reusability of components
- d. None

- 11. Which of the following models doesn't necessitate defining requirements at the earliest in the lifecycle?
  - a. RAD & Waterfall
  - b. Prototyping & Waterfall
  - c. Spiral & Prototyping
  - d. Spiral & RAD

Answer: Option (c)

- 12. When the user participation isn't involved, which of the following models will not result in the desired output?
  - a. Prototyping & Waterfall
  - b. Prototyping & RAD
  - c. Prototyping & Spiral
  - d. RAD & Spiral

Answer: Option (b)

- 13. 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
  - b. Iterative Enhancement
  - c. RAD
  - d. Both (b) and (c)

Answer: Option (D)

14. Software is considered to be collection

of

- a. programming code
- b. associated libraries
- c. documentations
- d. All of the above

Answer: Option (d)

- 15. The process of developing a software product using software engineering principles and methods is referred to as\_\_\_\_\_.
  - a. Software Engineering
  - b. software Evolution
  - c. System Models
  - d. Software Models

Answer: Option (b)

- 16. Which of the following is the Characteristics of good software?
  - a. Transitional
  - b. Operational
  - c. Maintenance
  - d. All of the above

Answer: Option (d)

- 17. Where there is a need of Software Engineering?
  - a. For Large Software
  - b. To reduce Cost
  - c. Software Quality Management
  - d. All of the above

Answer: Option (d)

18. The reason for software bugs and failures is due

to\_\_\_\_\_

- a. Software Developers
- b. Software companies
- c. Both A and B
- d. None of the above

Answer: Option (d)

- 19. Efficiency in a software product does not include
  - a. Licensing
  - b. processing time
  - c. responsiveness
  - d. memory utilization

Answer: Option (a)

20. What are attributes of good software?



- a. Software functionality
- b. Software development
- c. Software maintainability
- d. Both A and C

- 21. Build & Fix Model is suitable for programming exercises of \_\_\_\_LOC (Line of Code).
  - a. 100-200
  - b. 200-400
  - c. 400-1000
  - d. above 1000

Answer: Option (a)

- 22. RAD stands for
  - a. Relative Application Development
  - b. Rapid Application Development
  - c. Rapid Application Document
  - d. None of the mentioned

Answer: Option (b)

- 23. Which one of the following models is not suitable for accommodating any change?
  - a. Build & Fix Model
  - b. Prototyping Model
  - c. RAD Model
  - d. Waterfall Model

Answer: Option (d)

- 24. Which is not one of the types of prototype of Prototyping Model?
  - a. Horizontal Prototype
  - b. Vertical Prototype
  - c. Diagonal Prototype

Answer: Option (c)

- 25. Which one of the following is not a phase of Prototyping Model?
  - a. Quick Design
  - b. Coding
  - c. Prototype Refinement
  - d. Engineer Product
  - e. Domain Prototype.

Answer: Option (b)

- 26. Which of the following statements regarding Build & Fix Model is wrong?
  - a. No room for structured design
  - b. Code soon becomes unfixable & unchangeable
  - c. Maintenance is practically not possible
  - d. It scales up well to large projects

Answer: Option (d)

- 27. RAD Model has
  - a. 2 phases
  - b. 3 phase
  - c. 5 phases
  - d. 6 phases

Answer: Option (c)

- 28. Which model can be selected if user is involved in all the phases of SDLC?
  - a. Waterfall Model
  - b. Prototyping Model
  - c. RAD Model
  - d. both Prototyping Model & RAD Model

Answer: Option (c)

- 29. Which of the following are valid step in SDLC framework?
  - a. Requirement Gathering
  - b. System Analysis
  - c. Software Design
  - d. All of the above

Answer: Option (d)

- 30. Which of the following is the first step in SDLC framework?
  - a. Feasibility Study
  - b. Requirement Gathering
  - c. Communication
  - d. System Analysis

Answer: Option (c)

- 31. Which of the following is not correct model in Software Development Paradigm?
  - a. Waterfall Model
  - b. P model
  - c. Spiral Model
  - d. V model

- 32. Waterfall model is not suitable for:
  - a. Small projects
  - b. Complex projects
  - c. Accommodating changes
  - d. Maintenance Projects

Answer: Option (c)

- 33. Which one of the following is a functional requirement?
  - a. Maintainability
  - b. Portability
  - c. Business needs
  - d. Reliability

Answer: Option (c)

- 34. What is the major drawback of using RAD Model?
  - a. Highly specialized & skilled developers/designers are required
  - b. Increases reusability of components
  - c. Encourages customer/client feedback
  - d. Increases reusability of components,
     highly specialized & skilled
     developers/designers are required

Answer: Option (d)

- 35. 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

Answer: Option (c)

- 36. The goal of requirement engineering is to develop and maintain sophisticated and descriptive \_\_\_\_\_\_\_ document.
  - a. Feasibility Study
  - b. Requirement Gathering
  - c. Software Requirement Validation
  - d. System Requirements Specification

Answer: Option (d)

- 37. It is the process in which developers discuss with the client and end users and know their expectations from the software.
  - a. Requirements gathering
  - b. Organizing Requirements
  - Negotiation & discussion
  - d. Documentation

Answer: Option (a)

- 38. Which of the following is correct software metrics?
  - a. Complexity Metrics
  - b. Quality Metrics
  - c. Process Metrics
  - d. All of the above

Answer: Option (d)

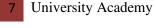
- 39. Why is Requirements Elicitation a difficult task?
  - a. Problem of scope
  - b. Problem of understanding
  - c. Problem of volatility
  - d. All of the above

Answer: Option (d)

40. The fundamental notions of software engineering does not account for?A. Software Security B. Software reuse C. Software processes D. Software Validation

Answer: Option (d)

41. Which of these software engineering activities are not a part of software processes?





- a. Software development
- b. Software dependence
- c. Software validation
- d. Software specification

- 42. The spiral model was originally proposed by..
  - a. Barry Boehm
  - b. Pressman
  - c. Royce
  - d. Pressman

Answer: Option (a)

- 43. Usability can be measured in terms of:
  - Time required to become moderately efficient in system usage
  - b. Net increase in productivity
  - c. Intellectual skill to learn the system
  - d. All of the mentioned

Answer: Option (d)

- 44. What are attributes of good software?
  - a. Software functionality
  - b. Software maintainability
  - c. Software development
  - d. Both Software functionality & maintainability

Answer: Option (d)

- 45. Which of the following is also known as Verification and Validation Model?
  - a. V-Model
  - b. Waterfall Model
  - c. Prototype Model
  - d. Evolutionary Model

Answer: Option (a)

- 46. Software deteriorates rather than wears out because
  - Software suffers from exposure to hostile environments

- 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

Answer: Option (c)

- 47. Which of the items listed below is not one of the software engineering layers?
  - a. Process
  - b. Manufacturing
  - c. Methods
  - d. Tools

Answer: Option (b)

- 48. Which of these are the 5 generic software engineering framework activities?
  - a. Communication, planning, modeling, construction, deployment
  - b. Communication, risk management, measurement, production, reviewing
  - Analysis, designing, programming, debugging, maintenance
  - d. Analysis, planning, designing, programming, testing

Answer: Option (c)

- The incremental model of software development is
  - A reasonable approach when requirements are well defined
  - A good approach when working core product is required.
  - The best approach to use when large development team
  - d. A revolutionary model that is not commercially used.

Answer: Option (b)

50. The spiral model of software development

- Ends with the software delivery of the product
- b. Is more chaotic than incremental model
- c. Calculate risk at each phase
- d. All the three

- 51. The prototyping software model is
  - A reasonable approach when requirements are well defined
  - Useful only when customer can not define requirement clearly
  - c. best for large development team
  - d. A risky model for producing meaningful product

Answer: Option (b)

- 52. Which question no longer concerns the modern software engineer?
  - a. Why does computer hardware cost so much?
  - b. Why does software take a long time to finish?
  - c. Why does it cost so much to develop a piece of software?
  - d. Why can't software errors be removed from products prior to delivery?

Answer: Option (a)

53. Software is a product and can be manufactured using the same technologies used for other engineering artifacts

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- a. True
- b. False

Answer: Option (b)

- 54. Software deteriorates rather than wears out because
  - Software suffers from exposure to hostile environments
  - 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

Answer: Option (c)

- 55. WebApps are a mixture of print publishing and software development, making their development outside the realm of software engineering practice.
  - a. True
  - b. False

Answer: Option (b)

- 5. There are no real differences between creating WebApps and MobileApps
  - a. True
  - b. False

Answer: Option (b)

- 56. In its simplest form an external computing device may access cloud data services using a web browser.
  - a. True
  - b. False

Answer: Option (a)



- 57. Product line software developments depends the reuse of existing software components to provide software engineering leverage.
  - a. True
  - b. False

- 58. Which of the items listed below is not one of the software engineering layers?
  - a. Process
  - b. Manufacturing
  - c. Methods

Tools Answer: Option (b)

- 59. Which of these are the 5 generic software engineering framework activities?
  - a. communication, planning, modeling, construction, deployment
  - b. communication, risk management, measurement, production, reviewing
  - c. analysis, designing, programming, debugging, maintenance
  - d. analysis, planning, designing, programming, testing

Answer: Option (a)

- 60. Most software continues to be custom built because
  - Component reuse is common in the software world.
  - b. Reusable components are too expensive to use.

- Software is easier to build without using someone else's components.
- d. Off-the-shelf software components are unavailable in many application domains.

Answer: Option (d)

- 61. The nature of software applications can be characterized by their information
  - a. Complexity
  - b. Content
  - c. Determinacy
  - d. both b and c

Answer: Option (d)

- 62. Process models are described as agile because they
  - Eliminate the need for cumbersome documentation
  - b. Emphasize maneuverability and adaptability
  - Do not waste development time on planning activities
  - d. Make extensive use of prototype creation

Answer: Option (b)

- 63. Which of these terms are level names in the Capability Maturity Model?
  - a. Performed
  - b. Repeated
  - c. Optimized
  - d. both a and c

Answer: Option (d)

- 64. The best software process model is one that has been created by the people who will actually be doing the work.
  - a. True
  - b. False

- 65. Which of the following are recognized process flow types?
  - a. Concurrent process flow
  - b. Iterative process flow
  - c. Linear process flow
  - d. both b and c

Answer: Option (d)

- 66. Which of these are standards for assessing software processes?
  - a. SPICE
  - b. ISO 9000
  - c. ISO 9001
  - d. both a and c

Answer: Option (d)

- 67. The rapid application development model is
  - Another name for component-based development
  - **b.** A useful approach when a customer cannot define requirements clearly.
  - A high speed adaptation of the linear sequential model.
  - d. All of the above.

Answer: Option (c)

- 68. In the Unified Process model requirements are determined iteratively and may span more than one phase of the process.
  - a. True
  - b. False

Answer: Option (a)

- 69. The waterfall model of software development is
  - A reasonable approach when requirements are well defined.
  - b. A good approach when a working program is required quickly.
  - c. The best approach to use for projects with large development teams
  - d. An old fashioned model that is rarely used any more

Answer: Option (a)

- The incremental model of software development is
  - a. A reasonable approach when requirements are well defined.
  - b. A good approach when a working core product is required quickly.
  - The best approach to use for projects with large development teams
  - d. A revolutionary model that is not used for commercial products.

Answer: Option (b)

- 71. Evolutionary software process models
  - a. Are iterative in nature
  - Can easily accommodate product requirements changes

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- Do not generally produce throwaway systems
- d. All of the above.

- 72. The prototyping model of software development is
  - a. A reasonable approach when requirements are well defined.
  - b. A useful approach when a customer cannot define requirements clearly.
  - The best approach to use for projects with large development teams.
  - d. A risky model that rarely produces a meaningful product.

Answer: Option (b)

- 73. The spiral model of software development
  - Ends with the delivery of the software product.
  - b. Is more chaotic than the incremental model.
  - c. Includes project risks evaluation during each iteration
  - d. All of the above

Answer: Option (c)

- 74. The concurrent development model is
  - a. Another name for concurrent engineering.
  - b. Defines events that trigger engineering activity state transitions.
  - Only used for development of parallel or distributed systems.
  - d. Both a and b

Answer: Option (c)

- 75. The component-based development model is
  - a. Only appropriate for computer hardware design
  - Not able to support the development of reusable components.
  - Dependent on object technologies for support.
  - d. Not cost effective by known quantifiable software metrics

Answer: Option (c)

- 76. The formal methods model of software development makes use of mathematical methods to
  - Define the specification for computerbased systems
  - b. Develop defect free computer-based systems.
  - Verify the correctness of computer-based systems.
  - d. All of the above.

Answer: Option (d)

- 77. Which of these is not one of the phase names defined by the Unified Process model for software development?
  - a. Inception phase
  - b. Elaboration phase
  - c. Construction phase
  - d. Validation phase

Answer: Option (d)

- 78. Which of these is not a characteristic of Personal Software Process?
  - Emphasizes personal measurement of work product.
  - Practitioner requires careful supervision by the project manager.
  - c. Individual practitioner is responsible for estimating and scheduling.
  - d. Practitioner is empowered to control quality of software work products.

- 79. Which of these are objectives of Team Software Process?
  - a. Accelerate software process improvement
  - Allow better time management by highly trained professionals
  - c. Build self-directed software teams
  - d. Both b and c

Answer: Option (d)

- 80. SDLC stands for
  - a. Software Development Life Cycle
  - b. System Development Life cycle
  - c. Software Design Life Cycle
  - d. System Design Life Cycle

Answer: Option (a)

- 81. Which model can be selected if user is involved in all the phases of SDLC?
  - a. Waterfall Model
  - b. Prototyping Model
  - c. RAD Model
  - d. both Prototyping Model & RAD Model

Answer: Option (c)

## **Unit- II**

1.	The process to gather the software require	nents 5. What are the types of requirement in Quality
	from client, analyze and document them is	Function Deployment (QFD)?
	known as	a. Known, Unknown, Undreamed
	a. Feasibility Study	b. User, Developer
	b. Requirement Gathering	c. Functional, Non-Functional
	c. Requirement Engineering	d. Normal, Expected, Exciting
	d. System Requirements Specification	Answer: Option (d)
	Answer: Option (c)	6. Why is Requirements Elicitation a difficult
2.	The goal of requirement engineering is to	task?
	develop and maintain sophisticated and	a. Problem of scope
	descriptivedocument.	b. Problem of understanding
		c. Problem of volatility
	a. Feasibility Study	d. All of the above
	b. Requirement Gathering	Answer: Option (d)
	c. Software Requirement Validation	Allower. Option (d)
	d. System Requirements Specification	7. How many phases are there in Brainstorming?
	Answer: Option (d)	a. 2
	· · · · · · · · · · · · · · · · · · ·	b. 3
3.	It is the process in which developers discu	s c. 4
	with the client and end users and know the	r d. 5
	expectations from the software.	Annual Outline (1)
	a. Requirements gathering	Answer: Option (b)
	b. Organizing Requirements	8. Which type of DFD concentrates on the system
	c. Negotiation & discussion	process and flow of data in the system?
	d. D. Documentation	a. Physical DFD
	Answer: Option (b)	b. Logical DFD
	Answer. Option (b)	c. Flowchart DFD
4.	Which of the following is correct software	d. System DFD
	metrics?	
	a. Complexity Metrics	Answer: Option (b)
	b. Quality Metrics	9. How many levels of DFD is?
	c. Process Metrics	a. 2
	d. All of the above	b. 3
		c. 4
	Answer: Option (b)	d. 5

- 10. Which of the following is not a component in DFD?
  - **Entities** a.
  - b. Attributes
  - **Process**
  - Data Flow

Answer: Option (b)

- 11. What is level 2 in DFD means?
  - a. Highest abstraction level DFD is known as Level 2.
  - b. Level 2 DFD depicts basic modules in the system and flow of data among various modules.
  - c. Level 2 DFD shows how data flows inside the modules mentioned in Level 1.
  - d. All of the above

Answer: Option (c)

- 12. The context diagram is also known as
  - a. Level-0 DFD
  - b. Level-1 DFD
  - Level-2 DFD
  - All of the above

Answer: Option (a)

- 13. A directed arc or line in DFD represents
  - a. Data Store
  - **Data Process**
  - **Data Flow** c.
  - All of the above

Answer: Option (c)

- 14. What are the types of requirements?
  - a. Availability

- Reliability
- Usability c.
- All of the mentioned

Answer: Option (d)

- 15. Select the developer-specific requirement?
  - a. Portability
  - Maintainability
  - Availability
  - **Both Portability and Maintainability**

Answer: Option (d)

- 16. Which one of the following is not a step of requirement engineering?
  - Elicitation
  - b. Design
  - Analysis c.
  - documentation

Answer: Option (b)

- 17. FAST stands for
  - a. Functional Application Specification Technique
  - b. Fast Application Specification Technique
  - **Facilitated Application Specification Technique**
  - d. None of the mentioned

Answer: Option (c)

- 18. The user system requirements are the parts of which document?
  - SDD a.
  - b. SRS
  - **DDD** c.
  - d. SRD
- Answer: Option (b)



19.	Whi	ich is one of the most important		c.	the less likely it is to be properly
	stak	eholders from the following?			corrected
	a.	Entry level personnel		d.	All of the mentioned
	b.	Middle level stakeholder			Assessed Ontion (4)
	c.	Managers			Answer: Option (d)
	d.	Users of the software	24.	Wh	ich one of the following is not a software
	Λn	sswer: Option (D)		pro	cess quality?
	AII	iswer. Option (D)		a.	Productivity
20.	Cho	oose an internal software quality from given		b.	Portability
	below:			c.	Timeliness
	a.	Scalability		d.	Visibility
	b.	Usability			An array Onting (b)
	c.	Reusability			Answer: Option (b)
	d.	reliability	25.		are two
	۸	one Ortion (a)		kine	ds of software products.
	An	swer: Option (c)		a.	CAD, CAM
				b.	Firmware, Embedded
				c.	Generic, Customized
21.	RUI	P stands forcreated by a division of		d.	None of the mentioned
	a.	Rational Unified Program, IBM			Answer: Option (C)
	b.	Rational Unified Process, Infosys			
	c.	Rational Unified Process, Microsoft			
	d.	Rational Unified Process, IBM	26.	Pur	pose of process is to deliver software
		Anguar Option (4)		a.	in time
		Answer: Option (d)		b.	with acceptable quality
22.	Whi	ich phase of the RUP is used to establish a		c.	that is cost efficient
	busi	iness case for the system?		d.	both in time & with acceptable quality
	a.	Transition			
	b.	Elaboration			Answer: Option (d)
	c.	Construction			
	d.	Inception			
			27.		ich one of the following is not an Umbrella
		Answer: Option (d)			ivity that complements the five process
23.	The longer a fault exists in software     a. the more tedious its removal becomes				nework activities and help team manage and
				con	trol progress, quality, change, and risk.
	b.			a.	Reusability management
		•		b.	Risk management
				c.	Measurement

#### d. User Reviews

Answer: Option (d)

- 28. Which one of the following is a functional requirement?
  - a. Maintainability
  - b. Portability
  - c. Robustness
  - d. None of the mentioned

Answer: Option (d)

- 29. Which one of the following is a requirement that fits in a developer's module?
  - a. Availability
  - b. Testability
  - c. Usability
  - d. Flexibility

Answer: Option (b)

- 30. "Consider a system where, a heat sensor detects an intrusion and alerts the security company." What kind of a requirement the system is providing?
  - a. Functional
  - b. Non-Functional
  - c. Known Requirement
  - d. None of the mentioned

Answer: Option (A)

- 31. Which of the following statements explains portability in non-functional requirements?
  - a. It is a degree to which software running on one platform can easily be converted to run on another platform.
  - b. It cannot be enhanced by using languages,
     OS' and tools that are universally available and standardized.

- c. The ability of the system to behave consistently in a user-acceptable manner when operating within the environment for which the system was intended.
- d. None of the mentioned

Answer: Option (a)

- 32. Choose the incorrect statement with respect to Non-Functional Requirement (NFR).
  - a. Product-oriented Approach Focus on system (or software) quality
  - Process-oriented Approach Focus on how NFRs can be used in the design process
  - c. Quantitative Approach Find measurable scales for the functionality attributes
  - d. Qualitative Approach Study various relationships between quality goals

Answer: Option (c)

- 33. What is the first step of requirement elicitation?
  - a. Identifying Stakeholder
  - b. Listing out Requirements
  - c. Requirements Gathering
  - d. All of the mentioned

Answer: Option (a)

- 34. Arrange the tasks involved in requirements elicitation in an appropriate manner.
  - i. Consolidation
  - ii. Prioritization
  - iii. Requirements Gathering
  - iv. Evaluation
  - a. iii, i, ii, iv
  - b. iii, iv, ii, i
  - c. iii, ii, iv, i
  - d. ii, iii, iv, i



- 35. Which of the following is not a SQA plan for a project?
  - a. Evaluations to be performed
  - b. amount of technical work
  - c. audits and reviews to be performed
  - d. documents to be produced by the SQA group

Answer: Option (b)

- 36. Who writes the Software Requirement Specifications Document (SRS)?
  - a. System Developer
  - b. System tester
  - c. System analyst
  - d. None of these above

Answer: Option (c)

- 37. What is the goal of the requirements analysis and specifications phase of software development life cycle?
  - a. Understanding the customer requirements and organize them in an informal document.
  - b. Analysing the cost of development
  - c. Determining scope of the software
  - d. None of these above

Answer: Option (a)

- 38. Which of the following is not a desirable characteristic of SRS document?
  - a. Concise
  - b. Ambiguous
  - c. Traceable
  - d. Verifiable

Answer: Option (b)

- 39. What is noise in terms of software development?
  - a. Writing irrelevant statement to the software development in the SRS document
  - Adding contradictory requirements in SRS document
  - c. Writing over-specification
  - d. None of these above

Answer: Option (a)

- 40. Which of the following is not a UML diagram?
  - a. Activity diagram
  - b. Use case
  - c. State diagram
  - d. DFD

Answer: Option (d)

- 41. Degree to which design specifications are followed in manufacturing the product is called
  - a. Quality Control
  - Quality of conformance
  - c. Quality Assurance
  - d. None of the mentioned

Answer: Option (B)

- 42. Who identifies, documents, and verifies that corrections have been made to the software?
  - a. Project manager
  - b. Project team
  - c. SQA group
  - d. All of the mentioned

Answer: Option (c)

- 43. What is Six Sigma?
  - a. It is the most widely used strategy for statistical quality assurance

- The "Six Sigma" refers to six standard deviations
- c. It is the most widely used strategy for statistical quality assurance and The "Six Sigma" refers to six standard deviations
- d. A Formal Technical Review (FTR) guideline for quality walkthrough or inspection

- 44. The degree to which the design specifications are followed during manufacturing is known as
  - Quality of design
  - b. Quality of conformance
  - c. Quality of testing
  - d. None of the mentioned

Answer: Option (b)

- 45. Quality also can be looked at in terms of user satisfaction which includes
  - a. A compliant product
  - b. Good quality output
  - c. Delivery within budget and schedule
  - d. All of the mentioned

Answer: Option (d)

- 46. The primary objective of formal technical reviews is to find during the process so that they do not become defects after release of the software.
  - **Errors**
  - Equivalent faults
  - c. Failure cause
  - d. None of the mentioned

Answer: Option (a)

- 47. Which of the following is not included in External failure costs?
  - **Testing** a.
  - Help line support b.
  - Warranty work c.
  - d. Complaint resolution

Answer: Option ()

- 48. Validation refers to the set of tasks that ensure that software correctly implements a specific function.
  - True a.
  - b. False

Answer: Option (b)

- 49. Quality of design encompasses requirements and specifications of the system.
  - True
  - False

Answer: Option (a)

- 50. Which of the following is not the primary objectives in the preliminary investigation of system development?
  - a. Assess cost and benefit of alternative approces
  - b. Determining the size of the project
  - c. Preparing the SRS to cover all the system specifications
  - d. Report finding to the management with recomendation to accept or reject the proposal

Answer: Option (c)

- 51. If every requirement can be checked by a costeffective process, then the SRS is \_\_\_\_\_?
  - Verifiable
  - b. Complete



d. Modifiable Answer: Option (a)  52. Information requirements of an organization can be determined by?  a. Finding out what similar organizations do b. Interviewing managers and users and arriving at the requirements based on consensus  c. Sending a questionnaire to all employees of the organization what they need based on your experience  Answer: Option (b)  53 and are not the subject matter of requirement analysis.  a. Performance, modelling present system b. Functional, non-functional c. Internal controls, present system work load d. Stakeholder knowledge of computers, developer's staff Answer: Option (d)  54. In which testing strategy requirements sanalysis are validated against developed software?  a. Validation testing b. Regression testing c. Integration testing d. System testing Answer: Option (a)  55. Initial requirements specification is?  a. Only a rough indication of the requirement b. Not changed till the end of the project  59. Requirement specification is carried out?		c.	Traceable	c.	Continuously changed during project
52. Information requirements of an organization can be determined by?  a. Finding out what similar organizations do  b. Interviewing managers and users and arriving at the requirements based on consensus  c. Sending a questionnaire to all employees of the organization  d. Telling organization what they need based on your experience  Answer: Option (b)  53 and are not the subject matter of requirement analysis.  a. Performance, modelling present system  b. Functional, non-functional  c. Internal controls, present system work load  d. Stakeholder knowledge of computers, developer's staff  Answer: Option (d)  54. In which testing strategy requirements established during requirements analysis are validated against developed software?  a. Validation testing  b. Regression testing  c. Integration testing  d. System testing  Answer: Option (a)  55. Initial requirements specification is?  a. Only a rough indication of the requirement  c. All are true  d. None of the above Answer: Option (c)		d.	Modifiable		implementation
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d. Stakeholder knowledge of computers, developer's staff Answer: Option (d)  54. In which testing strategy requirements established during requirements analysis are validated against developed software?  a. Validation testing b. Regression testing c. Integration testing d. System testing Answer: Option (a)  available time, human resource and requirement  d. All good organization do it Answer: Option (c)  58. 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 above requirement Answer: Option (c)		b.	Functional, non-functional	b.	There are conflicting demands from users
d. Stakeholder knowledge of computers, developer's staff Answer: Option (d)  58. Which of the following statements about SRS is/are true?  54. In which testing strategy requirements established during requirements analysis are validated against developed software?  a. Validation testing b. Regression testing c. Integration testing d. System testing Answer: Option (a)  55. Initial requirements specification is?  a. Only a rough indication of the requirement  c. All are true d. None of the above Answer: Option (c)		c.	Internal controls, present system work	c.	There are constraints on budgets,
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b. Regression testing c. Integration testing d. System testing Answer: Option (a)  a. Only i is true b. Both ii and iii are true c. All are true a. Only a rough indication of the requirement  developer  a. Only a rough indication of the requirement  Answer: Option (c)		valio	dated against developed software?		
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d. System testing  Answer: Option (a)  a. Only i is true  b. Both ii and iii are true  c. All are true  a. Only a rough indication of the  requirement  Answer: Option (c)		c.	Integration testing		
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55. Initial requirements specification is?  a. Only a rough indication of the requirement  c. All are true  d. None of the above  Answer: Option (c)			Answer: Option (a)	a.	Only i is true
a. Only a rough indication of the d. None of the above requirement Answer: Option (c)				b.	Both ii and iii are true
requirement Answer: Option (c)	55.	Initi	al requirements specification is?	c.	All are true
		a.	Only a rough indication of the	d.	None of the above
b. Not changed till the end of the project 59. Requirement specification is carried out?			requirement		Answer: Option (c)
	_	b.	Not changed till the end of the project	59. Re	quirement specification is carried out?

a.	Simultaneously with requirements	Answer: Option (a)	
	determination	64. Which one from the following is highly	
b.	. Before requirements are determined	associated activity of project planning?	
c.	After requirements are determined	a. Keep track of the project	
d.	. Independent of requirements	b. Compare actual and planned progress	and
	determination	costs	
	Answer: Option (c)	c. Identify the activities, milestones and	d
60. WI	hich of the following is not included in SRS?	deliverables produced by a project	
a.	Performance	d. Both B and C	
b.	Functionality	Answer: Option (c)	
c.	<b>Design solutions</b>	65. The final specifications are arrived at	_?
d.	External Interfaces	a. During feasibility study	
	Answer: Option (c)	b. After feasibility study	
61. Th	e main goal of arriving at a final	c. Just before implementation phase	
spe	ecification is?	d. When the system is being designed	
a.	To compute the cost of implementing the	Answer: Option (b)	
	system	66. Arrange the given sequence to form a SRS	
b.	. To assist in designing the system	prototype outline as per SRS standard.	
c.	To tell the organization's managers how	i) Consul description	
	the system will function	i). General description	
d.	. To tell the organization's managers	ii). Introduction	
	what the proposed system will achieve	iii) Baaiaaa	
	in a language understood by them	iii). Review	
	Answer: Option (d)	iv). Appendices	
62. Fir	nal specifications are drawn up by?	) G 15 D	
a.	System designers along with users	v). Specific Requirements	
b.	. The managers of user organization	a. iii, i, ii,v, iv	
c.	System analyst in consultation with	b. iii, ii, i, v, iv	
	programmers	c. ii, i, v, iv, iii	
d.	System analyst in consultation with the	d. iii, i, ii,v,iv	
	m <mark>anage</mark> ment of the organization	Answer: Option (c)	
	Answer: Option (d)	67. Requirement prioritization and negotiation	
	he role of a system analyst drawing up a	belongs to?	
req	quirements specification is similar to?	a. Feasibility study	
a.	8 8 8	b. Requirement elicitation	
b.		c. Requirement validation	
c.	e e	d. Requirements reviews	
d.	. The workers who construct a building	Answer: Option (b)	

68.	System approval criteria are specified?	b. Complete
	a. During feasibility study	c. Consistent
	b. During the requirements specifications	d. Modifiable
	stage	
	c. During system study stage	Answer: Option (b)
	d. When the final specifications are drawn	73. The SRS is said to be consistent if and only if
	up	a. its structure and style are such that any
	Answer: Option (d)	changes to the requirements can be made
69.	Which of the following is used to determine the	easily while retaining the style and
	specificity of requirements? Where n1 is the	structure
	number of requirements for which all reviewers	b. every requirement stated therein is one
	have identical interpretations, n2 is number of	that the software shall meet
	requirements in a specification.	c. every requirement stated therein is
	a. n1/n2	verifiable
	b. n2/n1	d. no subset of individual requirements
	c. n1+n2	described in it conflict with each other
	d. n1-n2	
	Answer: Option (a)	Answer: Option (d)
70.	Requirementmanalysis is critical to the success	74. The SRS document is also known as
	of a development project.	specification.
	a. True	a. black-box
	b. False	b. white-box
	c. Depends upon the size of project	c. grey-box
	d. None of the mentioned	d. none of the mentioned
	Answer: Option (a)	
		Answer: Option (a)
71.	How many feasibility studies is conducted in	75. The dynamic behaviour of the system is
	Requirement Analysis?	represented by which model?
	a. Two	a. Context Model
	b. Three	b. Behavioral Model
	c. Four	c. Data Model
	d. None of the mentioned	d. Object Model
	0 ( 4)	
	Answer: Option (b)	Answer: Option (b)
72.	The statement "Conformity to a standard is	
	maintained" depicts property	
	of SRS.	76. Which aspect in system modelling shows the
	a. Correct	system or data architecture.
		a. Structural aspect
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	b. Behavioral aspect	b. Internal Failure
	c. External aspect	c. External Failure
	d. All of the mentioned	d. Appraisal
	Answer: Option (a)	Answer:Option (d)
77. V	Which of the following statement is incorrect	81. According to Pareto's principle,%
re	egarding the Class-responsibility-collaborator	of defects can be traced to% of all
(	CRC) modeling ?	causes.
	a. All use-case scenarios (and corresponding	a. 60, 40
	use-case diagrams) are organized into	b. 70, 30
	categories in CRC modelling	c. 80, 20
	b. The review leader reads the use-case	d. No such principle exists
	deliberately	Anayyan Ontion (a)
	c. Only developers in the review (of the	Answer: Option (c)
	CRC model) are given a subset of the	82. Quality Management includes
	CRC model index cards	a. Defining procedures and standards
	d. All of the mentioned	b. Checking that procedures are followed
	Answer: Option (c)	c. Collecting and analyzing various quality
	Allswer. Option (c)	data
78. Ç	Quality Management in software engineering is	d. All of the above mentioned
a	ılso known as	Annual Ordina (1)
	a. SQA	Answer: Option (d)
	b. SQM	83. Non-conformance to software requirements is
	c. SQI	known as
	d. SQA and SQM	a. Software availability
	Answer: Option (a)	b. Software reliability
	Allswer. Option (a)	c. Software failure
79. Ç	Quality in software can be looked at in terms of	d. None of the mentioned
u	ser satisfaction which includes	
	a. A compliant product	Answer: Option (c)
	b. Good quality output	84. Software safety is equivalent to software
	c. Delivery within budget and schedule	reliability.
	d. All of the mentioned	a. TRUE
	Assessed Ordinar (1)	b. FALSE
	Answer: Option (d)	
80. I	nspections and testing are kinds	Answer: Option (b)
o	of Quality Costs.	85. Misinterpretation of customer communication is
	a. Prevention	a sample of possible cause defects.
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	CHIVEISH ACAUCHIV	



	a. TRUE	90 is not one of the activities
	b. FALSE	recommended to be performed by an
		independent SQA group.
	Answer: Option (a)	a. Prepare SQA plan for the project
86	kind of quality cost is incurred	b. Review software engineering activities to
00.	when an error is detected in a product prior to	verify process compliance
	shipment.	c. Report any evidence of noncompliance to
	a. Prevention	senior management
	b. Internal Failure	d. Serve as the sole test team for any
	c. External Failure	software produced
	d. Appraisal	
	d. Applaisa.	Answer: Option (d)
	Answer: Option (b)	91 is not a section in the standard for
87.	The degree to which the design specifications	SQA plans recommended by IEEE.
0,.	are followed during development is known as	a. Budget
	a. Quality of design	b. Documentation
	b. Quality of conformance	c. Reviews and audits
	c. Quality of testing	d. Test
	d. None of the mentioned	
		Answer: Option (a)
	Answer: Option (b)	92. Statistical quality assurance involves
88.	An informal review may consist of	
	a. Casual meeting	a. Using sampling in place of exhaustive
	b. Correction	<ul><li>testing of software</li><li>b. Surveying customers to find out their</li></ul>
	c. Inspection	, .
	d. Pair programming	opinions about product quality  c. Tracing each defect to its underlying
		c. Tracing each defect to its underlying cause, isolating the "vital few"
	Answer: Option (a)	causes, and moving to correct them
89	Which of the following are objectives for FTR?	d. Tracing each defect to its underlying
07.	a. Allow senior staff members to correct errors	causes and using the Pareto principle to
	b. Assess programmer productivity	correct each problem found
	c. Determining who introduced an error into a	Answer: Option (c)
	program	-
	d. Uncover errors in software work	93. Software safety is a quality assurance activity
	products	that focuses on hazards that
	products	a. Affect the reliability of a software
	Answer: Option (d)	b. May cause an entire system to fail
		b. May cause an entire system to fail
		c. May result from user input errors

d. Prevent profitable marketing of the final product

Answer: Option (b)

- 94. Which of the following is not a core step of Six Sigma?
  - a. Define
  - b. Control
  - c. Measure
  - d. Analyse

Answer: Option (b)

- 95. According to ISO 9001, inspection and testing comes under which management responsibility?
  - a. Process control
  - b. Document control
  - c. Control of nonconforming products
  - d. Servicing

Answer: Option (a)

## **Unit-III**

1.	Software design yields levels of results.  a. 2  b. 3  c. 4  d. 5	<ul> <li>b. Coupling</li> <li>c. Design Verification</li> <li>d. None of the above         Answer: Option (a)</li> <li>5. When multiple modules share common data structure and work on different part of it, it is called</li> </ul>
2.	Answer: Option (b)  Which of the following is not an Advantage of modularization?	<ul><li>a. Common coupling</li><li>b. Share coupling</li><li>c. Data coupling</li><li>d. Stamp coupling</li></ul>
	<ul><li>a. Smaller components are easier to maintain.</li><li>b. Concurrent execution can be made possible.</li></ul>	Answer: Option (d) 6. Which tool is use for structured designing?
	<ul> <li>c. Program cannot be divided based on functional aspects.</li> <li>d. Desired level of abstraction can be brought in the program.</li> <li>Answer: Option (c)</li> </ul>	<ul> <li>a. Program Chart</li> <li>b. Structure Chart</li> <li>c. Module Chart</li> <li>d. All the above         Answer: Option (b)     </li> </ul>
3.	How many types of cohesion are there in software design?	7. In Design phase, which is the primary area of concern?
	a. 5 b. 6 c. 7 d. 8 Answer: Option (c)	<ul> <li>a. Architecture</li> <li>b. Data</li> <li>c. Interface</li> <li>d. All of the above Answer: Option (d)</li> </ul>
4.	Which of the following defines the degree of intra-dependability within elements of a module?  a. Cohesion	<ul><li>8. Which of the following is the best type of module cohesion?</li><li>a. Functional Cohesion</li><li>b. Temporal Cohesion</li></ul>

- c. Functional Cohesion
- d. Sequential Cohesion

- 9. Which of the following is the worst type of module coupling?
  - a. Control Coupling
  - b. Stamp Coupling
  - c. External Coupling
  - d. Content Coupling

Answer: Option (D)

- 10. Choose the option that does not define Function Oriented Software Design.
  - a. It consists of module definitions.
  - b. Modules represent data abstraction.
  - c. Modules support functional abstraction.
  - d. None of the above

Answer: Option (b)

- 11. Defects removal efficiency (DRE)depends on:
  - a. E: errors found before software delivery
  - b. D: defects found after delivery to user
  - c. Both A and B
  - d. None of the above

Answer: Option (c)

- 12. Which of the following is an indirect measure of product?
  - a. Quality
  - b. Complexity
  - c. Reliability
  - d. All of the aboveAnswer: Option (d)

13. Which of the following is not a direct measure of SE process?

- a. Efficiency
- b. Cost
- c. Effort Applied
- d. All of the above

Answer: Option (a)

- 14. Which of the following is false?
  - a. The user has no control over the contents of a static web page.
  - b. The static content objects are dependent on the actions of the user.
  - c. It is expected to have less number of connections for a good web application.
  - d. Both A and B

Answer: Option (b)

- 15. Function Point Computation is given by the formula
  - a. FP = [count total \* 0.65] + 0.01 \* sum(Fi)
  - b. FP = count total \* [0.65 + 0.01 \* sum(Fi)]
  - c. FP = count total \* [0.65 + 0.01] \* sum(Fi)
  - d. FP = [count total \* 0.65 + 0.01] \* sum(Fi)Answer: Option (b)
- 16. SMI stands for?
  - a. Software Mature Indicator
  - b. Software Mature Index
  - c. Software Maturity Index
  - d. Software Maturity Indicator
    Answer: Option (c)

- 17. Statement and branch coverage metrics are part of
  - a. Analysis Model
  - b. Source Code
  - c. Design Model
  - d. Testing

- 18. Size and Complexity are a part of
  - a. Product Metrics
  - b. Process Metrics
  - c. Project Metrics
  - d. None of the above
    Answer: Option (a)
- 19. Number of errors found per person hours expended is an example of a
  - a. Measurement
  - b. Measure
  - c. Metric
  - d. None of the above

    Answer: Option (c)
- 20. The arc-to-node ratio is given as r = a/n. What does "a" represent in the ratio?
  - a. maximum number of nodes at any level
  - b. longest path from the root to a leaf
  - c. number of modules
  - d. lines of control

Answer: Option (d)

- 21. Which of these are the various techniques to generate design alternatives?
  - a. Determine Functional Component

- b. Determine Component based quality attribute.
- c. Modify an existing architecture.
- d. All of the mentioned

Answer: Option (d)

- 22. Which of the following truly describes the approach determining functional component?
  - a. This approach is based on studying the SRS and brainstorming candidate architectural constituents responsible for coherent collections of functional and data requirements.
  - b. This approach begins by forming constituent and constituent relationship to satisfy non-functional requirements.
  - c. This approach is used for similar program if architecture is available, it can be used as starting point.4
  - d. This approach describes the problem.

Answer: Option (a)

- 23. Functional components for a working model can be stated as which of the following?
  - a. Configuring Process Start up
  - b. Providing User interface
  - Allowing user to monitor and repa1ir the system.
  - d. All of the mentioned

Answer: Option (d)

24. The Non-functional components consist of

\_\_\_\_\_

- . Re usability
- b. Adaptability
- c. Reliability
- d. All of the mentioned

Answer: Option (d)

- 25. Which of the following statement is true?
  - Device interface module is a software simulation of, or interface to, a real hardware device or system.
  - b. A virtual device is a way to design a program with complex interfaces to device or other systems.
  - c. The program units in the device interface module hides all details of interaction with hardware devices.
  - d. None of the mentioned. Answer: Option (c)
- 26. Which of these are followed for an ideal device?
  - Do exactly one job completely.
  - Be loosely coupled to the rest of the program.
  - c. Never change interface.
  - d. All of the mentioned

- 27. Which among these best represents Coupling for an ideal device?
  - Do exactly one job completely.
  - b. Be loosely coupled to the rest of the program.
  - c. Hide its Implementation.
  - d. Never change its interface

Answer: Option (b)

- 28. Which among these best represents simplicity for an ideal device?
  - a. Do exactly one job completely.
  - b. Be loosely coupled to the rest of the program.

- Have a simple and consistent interface meeting the needs of the rest of the program.
- d. Never change its interface

Answer: Option (C)

- 29. Which among these are the methods to improve software architecture?
  - Combine Alternatives
  - Impose an architectural style.
  - Apply a mid-level design pattern.
  - d. All of the mentioned

Answer: Option (d)

- 30. Which among these signifies applying midlevel design pattern?
  - The best features of two or more design alternatives can be combined into an improved design.
  - The approximate particular style may be improved by modifying them to fit the style exactly.
  - The architectural styles applied at low level of abstraction.
  - d. None of the mentioned

Answer: Option (c)

- 31. The intent of project metrics is:
  - Minimization of development schedule.
  - for strategic purposes
  - assessing project quality on ongoing basis.
  - d. minimization of development schedule and assessing project quality on ongoing basis.

Answer: Option (d)



- 32. Which of the following is an indirect measure of product?
  - a. Quality
  - b. Complexity
  - c. Reliability
  - d. All of the Mentioned

- 33. In size-oriented metrics, metrics are developed based on the
  - a. number of Functions
  - b. number of user inputs
  - c. number of lines of code
  - d. amount of memory usage

Answer: Option (c)

- 34. Which of the following is not an information domain required for determining function point in FPA?
  - a. Number of user Input
  - b. Number of user Inquiries
  - c. Number of external Interfaces
  - d. Number of errors

Answer: Option (d)

- 35. Usability can be measured in terms of
  - a. Intellectual skill to learn the system
  - b. Time required to become moderately efficient in system usage
  - c. Net increase in productivity
  - d. All of the mentioned

Answer: Option (d)

36. A graphical technique for finding if changes and variation in metrics data are meaningful is known as

- a. DRE (Defect Removal Efficiency)
- b. Function points analysis
- c. Control Chart
- d. All of the mentioned

Answer: Option (c)

- 37. Which of the following does not affect the software quality and organizational performance?
  - a. Market
  - b. Product
  - c. Technology
  - d. People

Answer: Option (a)

- 38. Size and complexity are part of \_\_\_\_\_
  - a. Process metrics
  - b. Project metrics
  - c. Product metrics
  - d. All of the mentioned

Answer: Option (b)

- 39. Architectural design metrics focus on\_
  - a. Program architect
  - b. Data structure
  - c. Internal module complexity.
  - d. Module effectiveness and Architectural design

Answer: Option (d)

- 40. Which are not measurable characteristics of object-oriented design?
  - a. Efficiency
  - b. Cost

Size

#### d. Volatability

Answer: Option (d)

- 41. Which of the following is not an objective of high-level design activity?
  - a. To identify the important components of the system.
  - b. To design the layering among the components of the system.
  - c. To design the algorithms used in different components
  - d. To identify the call relationships among different components Answer: Option (C)
- 42. In which of the following design phases, do the software designers free to make any alterations, corrections and modifications?
  - a. Preliminary design phase
  - Detailed design phase b.
  - c. Both a and b
  - d. None of the above Answer: Option (a)
- 43) Which one of the following types of cohesion can be considered as the best form of cohesion?
  - Logical
  - b. Coincidental
  - **Temporal**
  - d. Functional

Answer: Option (d)

44. During the detailed design of a module, which one of the following is designed?

- Data structures and algorithms
- Control structure
- Data flow structure
- Module call relationships Answer: Option (a)
- 45. Which one of the following is the correct ordering of the coupling of modules from strongest to weakest?
  - Content, common, control, stamp, data
  - Common, content, control, stamp, data b.
  - Content, data, common, stamp, common
  - Data, control, common, stamp, content d. Answer: Option (a)
- 46. Which of the following objectives are not the one that the software designing phase claim to offer?
  - i. Identify software design activities
  - ii. Identify important items developed during the software design phase
  - iii. To improve the designing skills of the developers
    - All i, ii and iii are correct.
    - Only i and ii are correct. b.
    - Only i and iii are correct.
    - d. None of the given options is correct. Answer: Option (b)
- 47. Which of the following statements is true?
  - The software design phase comes after the feasibility and resources analysis phase.
  - ii. The quality of the software depends upon the design phase a lot.
    - Only i is true.



- b. Only ii is true.
- Both i and ii are true.
- d. None of them is true.

- 48. What encapsulates both data and data manipulation functions?
  - Object
  - b. Class
  - c. Super Class
  - d. Sub Class

Answer: Option (a)

- 49. Which of the following is a mechanism that allows several objects in a class hierarchy to have different methods with the same name?
  - a. Aggregation
  - b. Polymorphism
  - c. Inheritance
  - d. All of the mentioned

Answer: Option (A)

- 50. Which of the following points related to Object-oriented development (OOD) is true?
  - a. OOA is concerned with developing an object model of the application domain.
  - b. OOD is concerned with developing an object-oriented system model to implement requirements.
  - c. All of the mentioned
  - d. None of the mentioned

Answer: Option (c)

51. Which of the following is not a direct measure of SE process?

- **Efficiency**
- Cost
- Effort Applied
- d. All of the above

Answer: Option (a)

- 52. Function Point Computation is given by the formula
  - a. FP = [count total \* 0.65] + 0.01 \* sum(Fi)
  - b. FP = count total \* [0.65 + 0.01 \*sum(Fi)]
  - FP = count total \* [0.65 + 0.01] \* sum(Fi)
  - FP = [count total \* 0.65 + 0.01] \* sum(Fi)

Answer: Option (B)

- 51. Which of the following does not belong to FURPS?
  - a. Functionality
  - Usability
  - Reliability
  - Speed Efficiency

Answer:Option (d)

- 52. \_\_\_\_\_ is the first step in the software development life cycle.
  - a. Analysis
  - Design
  - Problem/Opportunity Identification
  - d. Development and Documentation

Answer:Option (c)

- \_\_\_ tool is used for structured designing.
  - Program flowchart
  - b. Structure chart
  - Data-flow diagram c.
  - d. Module

Answer: Option (b)

		b.	Data
54. A clear statement of the goals and objectives of		c.	Interfaces
the project is; in the analysis phase, the		d.	Project scope
develop	pment of the occurs.	An	swer: Option (d)
a.	documentation	59. Whi	ich of these are characteristics of a good
b.	flowchart	design?	
c.	program specification		
d.	design	a.	The design must implement all explicit
An	nswer: Option (c)		requirements available in requirement model.
55	designs and implement database		
structui	res.	b.	The design must accommodate all implicit
a.	Programmers		requirements given by stakeholders.
b.	Project managers	c.	voice recognition commands
c.	Technical writers	d.	All of the above options
d.	Database administrators		Answer: Option (d)
An	nswer: Option (d)		
		60. Whi	ich of the following is not a characteristic
56. In t	he design phase, is the primary	commo	n to all design methods?
area of	concern.	a.	configuration management
a.	Architecture	b.	functional component representation
b.	Data	c.	quality assessment guidelines
c.	Interface	d.	refinement heuristics
d.	All of the mentioned		Answer: Option (a)
An	nswer: Option (d)		
		61	is not a characteristic common to
57. m A	A single word summarize the	all desig	gn methods.
importa	ance of software design.	a.	configuration management
(a)	Efficiency	b.	functional component representation
(b)	Accuracy	c.	quality assessment guidelines
(c)	Quality	d.	refinement heuristics
(d)	Complexity	An	swer: Option (a)
	Answer: Option (c)		
		62. Whi	ich are the characteristics of good software
		design?	
58	is not an area of concern in the		
design	model.		
a.	Architecture		
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- The design must implement all explicit requirements available in requirement model.
- b. The design must accommodate all implicit requirements given by stakeholders.
- The design must be readable & understandable.
- d. All of the above options

63. \_\_\_\_\_ transforms class models into design class realization and prepares data structure (data design) required to implement the software.

- a. Data Design
- b. Architectural Design
- c. Interface Design
- d. Procedural Design

Answer: Option (a)

64. \_\_\_\_\_\_ defines the relationship between major structural elements of the software.

- a. Data Design
- b. Architectural Design
- c. Interface Design
- d. Procedural Design

Answer: Option (b)

65. \_\_\_\_\_\_ defines how software communicates with systems & with humans. An interface implies a flow of information & behavior.

- a. Data Design
- b. Architectural Design
- c. Interface Design
- d. Procedural Design

Answer: Option (c)

66. \_\_\_\_\_ transforms structural elements of software into procedural description of software components.

- a. Data Design
- b. Architectural Design
- c. Interface Design
- d. Procedural Design

Answer: Option (d)

- 67. Which of the following is wrong with reference to Software Design Principles.
  - a. Design process should not suffer from "tunnel vision".
  - b. Design should be traceable to the analysis model.
  - c. Design should not reinvent the wheel.
  - d. Design should "maximize the intellectual distance" between the software and the real-world problem.

Answer: Option (d)

- 68. Which of the following is Architectural Styles
  - a. Data-centered architecture style
  - b. Data-flow architectures
  - c. Call and return architecture.
  - d. All of the above options

Answer: Option (d)

- 69. Filter & Pipes are the concept of which Architectural Style
  - a. Data-centered architecture style
  - b. Data-flow architectures
  - c. Call and return architecture.
  - d. Layered architecture

Answer: Option (b)

- 70. Main program/subprogram architectures & Remote procedure call architectures are sub styles of \_\_\_\_\_\_.
  - a. Data-centered architecture style
  - b. Data-flow architectures
  - c. Call and return architecture.

d.	Layered architecture	An	Answer: Option (b)		
Aı	nswer: Option (c)				
		76. The	e system is denoted by in DF	D.	
71. Which option does not define Function		a.	Circle		
Oriented Software Design?		b.	Arrow		
a.	It consists of module definitions.	c.	Rectangle		
b.	Modules represent data abstraction.	d.	Triangle		
c.	Modules support functional abstraction.	An	swer: Option (a)		
d.	None of the mentioned				
Answer: Option (b)		77. Wh	77. Which of the following is not an activity of		
		Structu	red Analysis (SA)?		
72. Structured Analysis is based on, which		a.	Functional decomposition		
principles?		b.	Transformation of a textual problem		
a.	Top-down decomposition approach		description into a graphic model		
b.	Divide and conquer principle.	c.	All the functions represented in the		
c.	Graphical representation of results using		DFD are mapped to a module structu	ıre	
	DFDs.	d.	All of the mentioned		
d.	All of the mentioned	An	swer: Option (c)		
Aı	nswer: Option (d)				
		78. The	e results of structured analysis can be easi	ly	
73. Rectangle represents DFD		underst	understood by ordinary customers.		
notation.		a.	TRUE		
a.	Transform	b.	FALSE		
b.	Data Store	An	swer: Option (a)		
c.	Function				
d.	d. None of the mentioned		79. Structured Analysis is based on the principle of		
Answer: Option (b)		Bottom	Bottom-Up Approach.		
		a.	TRUE		
74. Structural decomposition is concerned with		b.	FALSE		
function calls.		An	swer: Option (b)		

- - TRUE
  - b. FALSE

- 75. A function-oriented design focuses on the entities in the system rather than the data processing activities.
  - a. TRUE
  - b. FALSE

object model of the application domain.

a. OOA is concerned with developing an

80. Which of the following points are true, with

reference to the Object-oriented development

b. OOD is concerned with developing an object-oriented system model to implement requirements.

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(OOD)?

	c. All of the mentioned.	c. Cyclomatic complexity and modularity
	d. None of the mentioned	d. None of the above
	Answer: Option (c)	Answer: Option (a)
81	is a disadvantage of OOD.	86. Cohesion is a qualitative indication of the
	a. Easier maintenance	degree to which a module
	b. Objects may be understood as stand-alon	e a. can be written more compactly.
	entities.	b. focuses on just one thing.
	c. Objects are potentially reusable	c. is able to complete its function in a timely
	components.	manner.
	d. None of the mentioned	d. is connected to other modules and the
	Answer: Option (d)	outside world.
		Answer: Option (b)
82.	A software component	
	a. Implements some functionality.	87. Coupling is a qualitative indication of the
	b. Has explicit dependencies through	degree to which a module
	provides and required interfaces.	a. can be written more compactly.
	c. Communicates through its interfaces only	b. focuses on just one thing.
	d. All of the mentioned	c. is able to complete its function in a timely
	Answer: Option (d)	manner.
		d. is connected to other modules and the
83. 1	Design patterns are not applicable to the desig	n outside world.
of o	object-oriented software?	Answer: Option (d)
	a. TRUE	
	b. FALSE	88. Which of the property of software modularity is
	Answer: Option (b)	incorrect with respect to benefits software
		mediteet with respect to conciles software
		modularity?
84	is/are the characteristics of a well	modularity?
		modularity?
	is/are the characteristics of a well	modularity?  a. Modules are robust.
form	is/are the characteristics of a well	modularity?  a. Modules are robust.  b. Module can use other modules.
form	is/are the characteristics of a well med design class. a. Primitiveness	modularity?  a. Modules are robust.  b. Module can use other modules.  c. Modules Can be separately compiled and
form	is/are the characteristics of a well med design class. a. Primitiveness b. High cohesion	modularity?  a. Modules are robust.  b. Module can use other modules.  c. Modules Can be separately compiled and stored in a library.
form	is/are the characteristics of a well med design class. a. Primitiveness b. High cohesion c. Low coupling	modularity?  a. Modules are robust.  b. Module can use other modules.  c. Modules Can be separately compiled and stored in a library.  d. Modules are mostly dependent.
form	is/are the characteristics of a well med design class. a. Primitiveness b. High cohesion c. Low coupling d. All of the above	modularity?  a. Modules are robust.  b. Module can use other modules.  c. Modules Can be separately compiled and stored in a library.  d. Modules are mostly dependent.
form	is/are the characteristics of a well med design class. a. Primitiveness b. High cohesion c. Low coupling d. All of the above	modularity?  a. Modules are robust.  b. Module can use other modules.  c. Modules Can be separately compiled and stored in a library.  d. Modules are mostly dependent.  Answer: Option (d)  89 is an indication of the relative
form	is/are the characteristics of a well med design class. a. Primitiveness b. High cohesion c. Low coupling d. All of the above Answer: Option (d)	modularity?  a. Modules are robust.  b. Module can use other modules.  c. Modules Can be separately compiled and stored in a library.  d. Modules are mostly dependent.  Answer: Option (d)  89 is an indication of the relative
85. l	is/are the characteristics of a well-med design class.  a. Primitiveness  b. High cohesion  c. Low coupling  d. All of the above  Answer: Option (d)  Independence of module is assessed using two	modularity?  a. Modules are robust.  b. Module can use other modules.  c. Modules Can be separately compiled and stored in a library.  d. Modules are mostly dependent.  Answer: Option (d)  89 is an indication of the relative functional strength of a module.

d.	Cohesion and coupling.	c.	Functional Cohesion		
An	swer: Option (a)	d.	Sequential Cohesion		
		An	swer: Option (b)		
90. Inde	ependent modules are easier to maintain and				
test bec	cause of	95. Wh	ich of the following is / are the type of		
a.	Code modification is limited.	Cohesio	on?		
b.	Error propagation is reduced.	a.	Functional		
c.	Reusable modules are possible.	b.	Coincidental		
d.	All of the above	c.	Communicational		
An	swer: Option (d)	d.	All of the above.		
		An	swer: Option (d)		
91	is a measure of the degree of				
interde	pendence between modules.	96.Wha	t is the meaning of Functional Cohesion?		
a.	Cohesion	a.	Operations are part of single functional		
b.	Coupling		task and are placed in same procedures.		
c.	None of the mentioned	b.	All operations that access the same data		
d.	All of the mentioned		are defined within one class.		
Answer: Option (b)		c.	All operations that access the data from		
			outside the module.		
92. A se	oftware engineer must design the modules	d.	None of the above.		
with the	e goal of high cohesion and low coupling.	An	Answer: Option (a)		
a.	TRUE				
b.	FALSE	97. Wh	ich is the worst type of coupling?		
An	sswer: Option (a)	a.	Control coupling		
		b.	Data coupling		
93. In _	coupling, the complete data	c.	Content coupling		
structur	re is passed from one module to another.	d.	Stamp coupling		
a.	Control Coupling	An	swer: Option (c)		
b.	Stamp Coupling				
c.	External Coupling	98. Wh	ich is the most desirable form of coupling?		
d.	Content Coupling	a.	Control coupling		
An	swer: Option (b)	b.	Data coupling		
		c.	Common coupling		
94. If a	ll tasks must be executed in the same time-	d.	Stamp coupling		
span, _	type of cohesion is being	An	swer: Option (b)		
exhibite	ed.				
		99. Wh	99. Which from the following is the most desirable		
a.	Functional Cohesion	form of	cohesion?		
b.	Temporal Cohesion	a.	Logical cohesion		



b.	Functional cohesion	c.	Show technical internals from the
c.	Procedural cohesion		casual user
d.	Communicational cohesion	d.	design for direct interaction with objects
An	swer: Option (b)		that appear on the screen
		An	swer: Option (c)
100. W	hich from the following is the worst form of		
cohesic	on?	104	is not a user interface design
a.	<b>Functional cohesion</b>	process	
b.	Sequential cohesion	a.	User, task, and environment analysis and
c.	Temporal cohesion		modelling.
d.	Coincidental cohesion	b.	Interface design
An	swer: Option (a)	с.	Knowledgeable, frequent users
		d.	Interface validation
101. "T	Three statements are given below regarding	An	swer: Option (c)
the Use	er Interface Design,		
1. Place	e the user in control.	105. WI	hen users are involved in complex tasks, the
2. Redu	ace the user's memory load.	demand	oncan be significant.
3. Mak	e the interface consistent.	a.	short-term memory
These r	rules are called as"	b.	shortcuts
a.	Golden Rule	c.	objects that appear on the screen
b.	Silver Rule	d.	all of the mentioned
c.	User Rule	An	swer: Option (a)
d.	Interface rule		
An	aswer: Option (a)	106	is not considered by the Interface
		design.	
102. W	hich of the following is golden rule for	a.	the design of interfaces between software
interfac	ee design?		components
a.	Place the user in control	b.	the design of interfaces between the
b.	Reduce the user's memory load		software and human producers and
c.	Make the interface consistent		consumers of information
d.	All of the given options	с.	the design of the interface between two
An	swer: Option (d)		computers
		d.	all of the mentioned
103	is not a design principle that	An	swer: Option (c)
allows	the user to maintain control.		

Provide for flexible interaction

and undo-able

Allow user interaction to be interrupt-able

107. A software might allow a user to interact via

keyboard commands

b. mouse movement

- c. voice recognition commands
- d. all of the mentioned

108. A software engineer designs the user interface by applying an iterative process that draws on predefined design principles.

- a. TRUE
- b. FALSE

Answer: Option (a)

109. What incorporates data, architectural, interface, and procedural representations of the software?

- a. design model
- b. user's model
- c. mental image

- d. system image
- Answer: Option (a)
- 110. What establishes the profile of end-users of the system?
  - a. design model
  - b. user's model
  - c. mental image
  - d. system image

Answer: Option (b)



#### **Unit-IV**

- 1. The order in which test levels are performed is:
  - a. Unit, Integration, Acceptance, System
  - b. Unit, System, Integration, Acceptance
  - c. Unit, Integration, System, Acceptance
  - d. It depends on the nature of a project

Answer: Option (d)

- a. System testing is a Black box testing.
- b. Grey box testing
- c. White box testing
- d. Both a and b

Answer: Option (a)

- 2. What is "V" Model?
  - a. Test Design Technique
  - b. Test Type
  - c. SDLC Model
  - d. Test Level

Answer: Option (c)

- 3. Test cases are designed during which of the following stages?
  - a. Test recording
  - b. Test configuration
  - c. Test planning
  - d. Test specification

Answer: Option (d)

- 4. which is not the other name for structural testing?
  - a. Behavioural testing
  - b. Glass box testing
  - c. White box testing
  - d. None of the above

Answer: Option (a)

- 5. The technique applied for usability testing is:
  - a. White box

- b. Grey box
- c. Black box
- d. Regression Testing

Answer: Option (c)

- 6. Which of the following is not a Test Type?
  - a. Database Testing
  - b. Security Testing
  - c. Statement Testing
  - d. Functional Testing

Answer: Option (c)

- 7. Static analysis can be best described as:
  - a. The reviewing of test plans
  - b. The analysis of batch programs
  - c. The use of black box testing
  - d. The analysis of program code

Answer: Option (d)

- 8. Exhaustive testing is:
  - a. Always possible
  - b. impractical but possible
  - c. practically possible
  - d. impractical and impossible

Answer: Option (b)

- 9. Which is not a type of incremental testing approach?
  - a. Bottom up
  - b. Top down
  - c. Big-bang

Answer: Option (c)

- 10. White-box testing can be started:
  - a. After installation
  - b. After SRS creation
  - c. After programming

d. After designing.

Answer: Option (c)

- 11. What is Fault Masking?
  - a. Creating a test case which does not reveal a fault
  - b. Error condition hiding another error condition.
  - c. Masking a fault by developer
  - d. Masking a fault by a tester

Answer: Option (b)

- 12. Which of the following is the component test standard?
  - a. BS7925-2
  - b. IEEE 829
  - c. BS7925-1
  - d. IEEE 610

Answer: Option (a)

- 13. Testing of software with actual data and in actual environment is known as?
  - a. Regression testing
  - b. Beta testing
  - c. Alpha testing
  - d. None of the above

Answer: Option (b)

- 14. Beta Testing is done at:
  - a. Developer's end
  - b. User's end
  - c. User's & Developer's end
  - d. None of the mentioned

Answer: Option (b)

- 15. A program with high cyclomatic complexity is likely to be:
  - a. Large
  - b. Small

- c. Difficult to write.
- d. Difficult to test.

Answer: Option (d)

- 16. Unit testing is done by:
  - a. Users
  - b. Developers
  - c. Customers
  - d. None of the mentioned

Answer: Option (b)

- 17. Which of the following is not a Software Development Life Cycle Phase?
  - a. Requirements Gathering
  - b. Test Closure
  - c. Coding
  - d. Testing

Answer: Option (b)

- 18. In order to control cost, defects should ideally be detected in which phase:
  - a. Coding
  - b. Design
  - c. Implementation
  - d. Requirements Gathering

Answer: Option (d)

- 20) Error guessing is a:
  - a. Test verification techniques
  - b. Test data management techniques
  - c. Test control management techniques
  - d. Test execution techniques

Answer: Option (b)

- 20. Which of the following is not a white box technique?
  - a. State transition testing
  - b. Path testing
  - c. Statement testing

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d. Data flow testing.

Answer: Option (a)

- 21. Alpha testing is:
  - a. Post-release testing by end user representatives at the developer's site
  - b. The first testing that is performed.
  - Pre-release testing by end user representatives at their sites
  - d. Pre-release testing by end user representatives at the developer's site

Answer: Option (d)

- 22. 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: Option (b)

- 23. What is Cyclomatic complexity?
  - a. Black box testing
  - b. White box testing
  - c. Yellow box testing
  - d. Green box testing

Answer: Option (b)

- 24. Maintenance testing is performed using which methodology?
  - a. Retesting
  - b. Sanity testing
  - c. Breadth test and depth test
  - d. Confirmation testing

Answer: Option (c)

- 25. Which of the following is/are White box technique?
  - a. Statement Testing

- **b.** Decision Testing
- c. Condition Coverage
- d. All of the mentioned

Answer: Option (d)

- 26. What are the various Testing Levels?
  - a. Unit Testing
  - b. System Testing
  - c. Integration Testing
  - d. All of the mentioned

Answer: Option (d)

- 27. Boundary value analysis belongs to?
  - a. White Box Testing
  - a. Black Box Testing
  - b. White Box & Black Box Testing
  - c. None of the mentioned

Answer: Option (b)

- 28. Alpha testing is done at
  - a. Developer's end
  - b. User's end
  - c. Developer's & User's end
  - d. None of the mentioned

Answer: Option (a)

29. Which of the following is also known as

"Behavioural" testing?

- a. Black-box testing
- b. White-box testing
- c. C. Both A and B
- d. None of the above

Answer: Option (a)

30. Which methodology is used to perform

Maintenance testing?

- a. Breadth test and depth test
- b. Confirmation testing
- c. Retesting

d. Sanity testing

Answer: Option (a)

- 31. Which of the following is not part of the Test document?
  - a. Test Case
  - b. Requirements Traceability Matrix [RTM]
  - c. Test strategy
  - d. Project Initiation Note [PIN]

Answer: Option (d)

- 32. Which of the following testing is related to the boundary value analysis?
  - a. White box and black box testing
  - b. White-box testing
  - c. Black box testing
  - d. None of the above

Answer: Option (c)

- 33. Exploratory testing is a ----?
  - a. Experience-based Test Design Technique
  - b. White Box Test Design Technique
  - c. Black Box Test Design Technique
  - d. Grey Box Test Design Technique

Answer: Option (a)

- 34. What is the best time to perform Regression testing?
  - a. After the software has been modified
  - b. As frequently as possible
  - c. When the environment has been modified
  - d. Both option a & c

Answer: Option (d)

- 35. Which Test Document is used to define the Exit Criteria of Testing?
  - a. Defect Report

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- b. Test Summary Report
- c. Test Case
- d. Test Plan

Answer: Option (d)

- 36. Which testing technique is used for usability testing?
  - a. White-box testing
  - b. Grey box testing
  - c. Black Box testing
  - d. Combination of all

Answer: Option (c)

- 37. Which is not the right approach of Incremental testing approach?
  - a. Big bang approach
  - b. Top-down approach
  - c. Functional incrimination
  - d. Bottom-up approach

Answer: Option (a)

- 38. The test levels are performed in which of the following order?
  - a. Unit, Integration, System, Acceptance
  - b. It is based on the nature of the project.
  - c. Unit, Integration, Acceptance, System
  - d. Unit, System, Integration, Acceptance

Answer: Option (b)

- 39. Which of the below testing is executed without documentation and planning is known as?
  - a. Regression Testing
  - b. Adhoc Testing
  - c. Unit Testing
  - d. None of the above

Answer: Option (b)

40. The Regression test case is not a -----?



- a. Tests that focus on the software components, which have been modified.
- Low-level components are combined into clusters, which perform a specific software sub-function.
- Additional tests that emphasize software functions, which are likely to be affected by the change.
- d. A representative sample of tests, which will exercise all software functions.

Answer: Option (b)

- 41. Which of the following abbreviation is correct for the terms SPICE?
  - Software Process Improvement and Control Determination
  - b. Software Process Improvement and Capability Determination
  - Software Process Improvement and Compatibility Determination
  - d. None of the above

Answer: Option (b)

- 42. "Automation testing should be performed before starting the manual testing" is the true statement or false?
  - a. True
  - b. False

Answer: Option (b)

- 43. ----- is the process of re-testing the modules that connected to the program or components after the modification has occurred.
  - a. Regional regression Testing
  - b. Re-testing
  - c. Full Regression Testing
  - d. Unit Regression Testing

Answer: Option (a)

- 44. Who is responsible for sprint meeting?
  - a. Scrum team
  - b. Scrum master
  - c. Product owner
  - d. All of the above

Answer: Option (d)

- 45. Generally, which testing is used when shrink-wrapped software products are being established and part of an integration testing?
  - a. Integration Testing
  - b. Validation testing
  - c. Regression Testing
  - d. Smoke testing

Answer: Option (d)

- 46. Given the following sets of test management terms (v-z), and activity descriptions (1-5), which one of the following best pairs the two sets?
- v Test control
- w Test monitoring
- x Test estimation
- y Incident management
- z Configuration control
- 1 Calculation of required test resources
- 2 Maintenance of record of test results
- 3 Re-allocation of resources when tests overrun
- 4 Report on deviation from test plan
- 5 Tracking of anomalous test results
  - a. v-3,w-2,x-1,y-5,z-4
  - b. v-2, w-5, x-1, y-4, z-3
  - c. v-3,w-4,x-1,y-5,z-2

d. v-2,w-1,x-4,y-3,z-5

Answer: Option (C)

- 47. The oracle assumption:
  - a. Is that there is some existing system against which test output may be checked.
  - b. Is that the tests are reviewed by experienced testers?
  - c. Is that the tester knows everything about the software under test.
  - Is that the tester can routinely identify the correct outcome of a test.

Answer: Option (d)

- 48. Static analysis is best described as:
  - The analysis of batch programs.
  - b. The reviewing of test plans.
  - c. The use of black box testing.
  - d. The analysis of program code.

Answer: Option (d)

- 49. Increasing the quality of the software, by better development methods, will affect the time needed for testing (the test phases) by:
  - a. Reducing test time
  - b. Increasing test time
  - c. No change
  - d. Can't say

Answer: Option (a)

- 50. Which of the following characterizes the cost of faults?
  - They are easiest to find during system testing but the most expensive to fix then.
  - b. They are cheapest to find in the early development phases and the most expensive to fix in the latest test phases.
  - c. Faults are cheapest to find in the early development phases but the most expensive to fix then.
  - Although faults are most expensive to find during early development phases, they are cheapest to fix then.

Answer: Option (b)

- 51. The objective of \_\_\_\_\_ phase is to transform the design of the system into high-level language.
  - Design phase
  - Unit testing
  - c. Coding
  - Testing

Answer: Option (c)

- 52. The main advantage of adhering to coding standard is
  - a. Uniform appearance to the codes written by different engineers.
  - b. Enhances code understanding.
  - c. Good programming practice
  - d. All of the above

Answer: Option (d)

- 53. Which of the following is/are representative coding guidelines.
  - Do not use a coding style that is too clever or too difficult to understand.
  - b. Do not use an identifier for multiple purposes.
  - c. The code should be well-documented.
  - d. All of the above

Answer: Option (d)

- 54. Which activity should be undertaken after the module successfully compiles?
  - a. Code review
  - b. Unit testing
  - c. Integration testing
  - d. All of the given options

Answer: Option (a)

- 55. Which of the following is Algorithmic fault?
  - a. Logic is wrong Code reviews
  - b. Wrong syntax; typos Compiler
  - c. Not enough accuracy
  - d. Maximum load violated

Answer: Option (a)

- 56. Which of the following is Syntax fault?
  - a. Logic is wrong Code reviews
  - b. Wrong syntax; typos Compiler
  - c. Not enough accuracy
  - d. Maximum load violated.

Answer: Option (b)

- 57. Which of the following is Precision fault?
  - a. Logic is wrong Code reviews.
  - b. Wrong syntax; typos Compiler
  - c. Not enough accuracy
  - d. Maximum load violated.

Answer: Option (c)

- 58. Which of the following is Stress/Overload fault?
  - a. Logic is wrong Code reviews.
  - b. Wrong syntax; typos Compiler
  - c. Not enough accuracy
  - d. Maximum load violated.

Answer: Option (d)

- 59. Which of the following are type of code review?
  - a. Code inspection
  - b. Code walkthrough
  - c. Both
  - d. None

Answer: Option (c)

- 60. helps to detect the algorithmic and logical error in code.
  - a. Code walkthrough
  - b. Code inspection
  - c. Both
  - d. None

Answer: Option (a)

- 61.\_\_\_\_\_ helps to detect common programming errors in code.
  - a. Code walkthrough
  - b. Code inspection
  - c. Both
  - d. None

Answer: Option (b)

- 62. Which of the following are some classical programming errors?
  - a. Use of uninitialized variables.
  - b. Jumps into loops.
  - c. Array indices out of bound.
  - d. All of the given options

Answer: Option (d)

68. Unit testing is performed by \_\_\_\_\_.

63.	Wh	ich of the following defines Static Analysis?	a	ı. Ì	Users
	a.	The analysis of batch programs.		b.	Developers
	b.	The reviewing of test plans.		c.	Customers
	c.	The analysis of program code		d.	None of the mentioned
	d.	The use of black box testing.		An	swer: Option (b)
	Ans	wer: Option (c)			
			69		serve to replace modules that are
64.	Wh	ich of the following is true regarding Static	subo	dina	ate (called by) the component to be tested.
Ana	alysi	s Tools?		a.	Stubs
	a.	It compares actual and expected results.		b.	Driver
	b.	It can detect memory leaks.		c.	Carrier
	c.	It gives quality information about code		d.	All of the given options
		without executing it.		An	swer: Option (a)
	d.	It tells about percentage of a code			
		coverage.	70		is used in Bottom-up testing
	An	swer: Option (c)	appro		
				a.	Stubs
65.	ITG	stands for		b.	Driver
	a.	instantaneous test group		c.	Carrier
	b.	integration testing group		d.	All of the given options
	c.	individual testing group		An	swer: Option (b)
	d.	independent test group			-
	An	swer: Option (d)	71		is used in Top-down testing
			appro	oach	
66.	Wh	ich term describes testing?		a.	Stubs
	a.	Finding broken code		b.	Driver
	b.	Evaluating deliverable to find errors.		c.	Carrier
	c.	A stage of all projects		d.	All of the given options
	d.	None of the mentioned		An	swer: Option (a)
	An	swer: Option (b)			
			72		is the process of testing the
67.	Wha	at are the various Testing Levels?	interf	ace	between two software units or modules?
	a.	Unit Testing		a.	Unit Testing
	b.	System Testing		b.	<b>Integration Testing</b>
	c.	Integration Testing		c.	Validation Testing
	d.	All of the mentioned		d.	System Testing
	An	swer: Option (d)		An	swer: Option (b)

73	is repeated testing of an already	An	swer: Option (a)
	ogram, after modification, to discover any		•
•	atroduced or uncovered as a result of the	78. Whic	h testing level focuses on customer usage?
changes i	n the software being tested?	a.	Alpha Testing
a.	Unit Testing	b.	Beta Testing
b.	Regression Testing	c.	Validation Testing
c.	Validation Testing	d.	Both Alpha and Beta
d.	System Testing	An	swer: Option (d)
An	swer: Option (b)		
		79. Black	Box techniques are also known as
74. When	n to do regression testing?		
a.	When new functionalities are added to	a.	Design based testing.
	the application?	b.	Specification-based testing
b.	When there is a change requirement.	c.	Error guessing technique
c.	When there is a defect fix.	d.	None of the mentioned
d.	All of the given options	An	swer: Option (b)
An	swer: Option (d)		
		80. White	Box techniques are also classified as
75	is the process of evaluating		
software	to determine whether it satisfies specified	a.	Design based testing
business	requirements/client's need?	b.	Structural testing
a.	Unit Testing	c.	Error guessing technique
b.	Integration Testing	d.	None of the mentioned
c.	Validation Testing	An	swer: Option (b)
d.	System Testing		
An	swer: Option (c)	81. Lowe	er and upper limits are present in
			chart.
76. Alpha	a testing is done at	a.	Run chart.
a.	Developer's end	b.	Bar chart
b.	User's end	c.	Control chart
c.	Developer's & User's end	d.	None of the mentioned
d.	None of the mentioned	An	swer: Option (a)
An	swer: Option (a)		
		82. Beha	vioural testing is
77. Beta 1	testing is done at	a.	White box testing
a.	User's end	b.	Black box testing
b.	Developer's end	c.	Grey box testing
c.	User's & Developer's end	d.	None of the mentioned
d.	None of the mentioned	An	swer: Option (b)
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			88. Whic	ch of the following terms defines the
83		is Equivalence Partitioning.	statemen	t, "Every statement in a program is
	a.	Black box testing	executed	at least once"?
	b.	White box testing	a.	Statement Coverage
	c.	Yellow box testing	b.	Branch coverage
	d.	Green box testing	c.	Path coverage
	An	swer: Option (a)	d.	Program overage
				Answer: Option (a)
84		is Boundary Value Analysis		
(BV	A).		89. Whic	th of the following terms defines the
	a.	Black box testing	statemen	t, "Test cases are designed to make each
	b.	White box testing	branch co	ondition to assume true and false values in
	c.	Yellow box testing	turn"?	
	d.	Green box testing	a.	Statement Coverage
	An	swer: Option (a)	b.	Branch coverage
			c.	Path coverage
85		is Cyclomatic complexity.	d.	Program overage
	a.	Black box testing	An	swer: Option (b)
	b.	White box testing	90. Whic	h of the following terms defines the
	c.	Yellow box testing	statemen	t, "Every path is executed at least once"?
	d.	Green box testing	a.	Statement Coverage
	An	swer: Option (b)	b.	Branch coverage
			c.	Path coverage
86. V	Whic	h of the following is/are White box	d.	Program overage
techi	nique	e?	An	swer: Option (c)
	a.	Statement Testing		
	b.	Decision Testing	91	testing checks code.
	c.	Condition Coverage	a.	Black box testing
	d.	All of the mentioned	b.	White box testing
	An	swer: Option (d)	c.	Red box testing
			d.	Green box testing
87. E	3oun	dary value analysis belong to?	An	swer: Option (b)
	a.	White Box Testing		
	b.	<b>Black Box Testing</b>	92. Testi	ng done without planning and
	c.	White Box & Black Box Testing	Documen	ntation is called
	d.	None of the mentioned	a.	Unit testing
	Ans	swer: Option (b)	b.	Regression testing
			c.	<b>Adhoc testing</b>
			d.	None of the mentioned

	An	swer: Option (c)				
			98. Whi	cł	n of the following issues must be	
93. <i>A</i>	Ассер	ptance testing is also known	addresse	ed	if a successful software testing strategy	
as		·	is to be	in	nplemented?	
	a.	Grey box testing	a.		Use effective formal technical reviews as	
	b.	White box testing			a filter prior to testing	
	c.	Alpha Testing	b.		Develop a testing plan that emphasizes	
	d.	Beta testing			"rapid cycle testing."	
	An	swer: Option (d)	c.		State testing objectives explicitly	
			d.		All of the mentioned	
94		is non-functional testing.	A	ns	swer: Option (d)	
	a.	Black box testing				
	b.	Performance testing	99. Test	c	ases should uncover errors like	
	c.	Unit testing				
	d.	None of the mentioned	a.		Non-existent loop termination	
	An	swer: Option (b)	b.		Comparison of different data types	
			c.		Incorrect logical operators or precedence	
95		is black box testing.	d.		All of the mentioned	
	a. Basic path testing		A	ns	swer: Option (a)	
	b.	Boundary value analysis				
	c.	Code path analysis	100		is considered as an adjunct to the	
	d.	None of the mentioned	coding s	ste	ep.	
	An	swer: Option (b)	a.		Integration testing	
			b.		Unit testing	
96. 5	Softw	vare Debugging is a set of activities that	c.		Completion of Testing	
can l	oe pla	anned in advance and conducted	d.		Regression Testing	
syste	emati	cally.	A	Answer: Option (a)		
	a.	TRUE				
	b.	FALSE	101		is not regression test case.	
	An	swer: Option (b)	a.		A representative sample of tests that will	
					exercise all software functions.	
97. I	Ву со	ollecting during software	b.		Additional tests that focus on software	
testi	ng, it	is possible to develop meaningful			functions that are likely to be affected by	
guid	eline	s to halt the testing process.			the change.	
	a.	Failure intensity	c.		Tests that focus on the software	
	b.	Testing time			components that have been changed.	
	c.	Metrics	d.		Low-level components are combined	
	d.	All of the mentioned			into clusters that perform a specific	
	An	swer: Option (c)			software sub-function.	

A	enswer: Option (d)		which of the following testing strategies, a testable unit is the encapsulated class or
102	testing integrates the set of	object?	
classes	required to respond to one input or event for	a.	Unit testing
the syst	em.	b.	Integration testing
a.	cluster testing	c.	System testing
b	. thread-based testing	d.	None of the mentioned
c.	use-based testing	An	swer: Option (a)
d.	. none of the mentioned		
A	nswer: Option (b)	107. Soft	ware Testing with real data in real
		environm	nent is known as
103. W	hich of the following is one of the steps in	a.	Alpha testing
the inte	gration testing of OO software?	b.	Beta testing
a	. cluster testing	c.	Regression testing
b	. thread-based testing	d.	None of the given options.
c.	use-based testing	An	swer: Option (b)
d.	none of the mentioned		
A	nswer: Option (a)	108. Beta	Testing is done by
		a.	Developers
104. W	hich methods can be used to drive	b.	Testers
validati	ons tests?	c.	Users
a.	Yellow-box testing	d.	All of the mentioned
b	. Black-box testing	An	swer: Option (c)
c.	White-box testing		
d.	. All of the mentioned		
A	nswer: Option (b)		
105	is a part of testing OO code.		
a.	Validation tests		
b.	. Integration tests		
c.	Class tests		
d.	. System tests		
A	nswer: Option (c)		

57.

#### Unit- V

- 1. Software Maintenance includes
  - a. Error corrections
  - b. Enhancements of capabilities
  - c. Deletion of obsolete capabilities
  - d. All of the mentioned

Answer: Option (d)

- 2. Maintenance is classified into how many categories?
  - a. Two
  - b. Three
  - c. Four
  - d. five

Answer: Option (c)

- 3. The modification of the software to match changes in the ever-changing environment, falls under which category of software maintenance?
  - a. Corrective
  - a. Adaptive
  - b. Perfective
  - c. Preventive

Answer: Option (b)

- 4. What type of software testing is generally used in Software Maintenance?
  - a. Regression Testing
  - b. System Testing
  - c. Integration Testing
  - d. Unit Testing

Answer: Option (a)

- 5. Which selective retest technique selects every test case that causes a modified program to produce a different output than its original version?
  - a. Coverage
  - b. Minimization
  - c. Safe

d. Maximization

Answer: Option (c)

6. \_\_\_\_\_ measures the ability of a regression test selection technique to handle realistic applications.

- a. Efficiency
- b. Precision
- c. Generality
- d. Inclusiveness

Answer: Option (c)

- 7. Which regression test selection technique exposes faults caused by modifications?
  - a. Efficiency
  - b. Precision
  - c. Generality
  - d. Inclusiveness

Answer: Option (d)

- 8. Which of the following is true about Corrective Maintenance?
  - a. It includes modifications and updations done in order to correct or fix problems, which are either discovered by user or concluded by user error reports.
  - b. It includes modifications and updations applied to keep the software product up-to date and tuned to the ever-changing world of technology and business environment.
  - c. It includes modifications and updates done in order to keep the software usable over long period of time.
  - d. It includes modifications and updations to prevent future problems of the software.

Answer: Option (a)

- 9. Which of the following is not a type of maintenance?
  - a. Adaptive Maintenance
  - b. Preventive Maintenance
  - c. Perfective Maintenance
  - d. Performative Maintenance

Answer: Option (d)

10. Which process is used to achieve system specification by thoroughly analyzing, understanding the existing system?

- a. Program Restructuring
- b. Reverse Engineering
- c. Forward Engineering
- d. None of the above

Answer: Option (b)

- 11. What type of software testing is generally used in Software Maintenance?
  - a. System Testing
  - b. Black-box testing
  - c. White-box testing
  - d. Regression Testing

Answer: Option (d)

- 12. What are legacy systems?
  - a. new systems
  - b. old systems
  - c. under-developed systems
  - d. None of the above

Answer: Option (b)

- 13. The continued evolution of legacy systems applies which techniques to ensure?
  - a. Reverse Engineering and Reengineering
  - b. Reverse Engineering
  - c. Reengineering

d. Forward engineering

Answer: Option (c)

- 14. The Maintenance of software includes.
  - Error corrections Different activity of a project management
  - b. Enhancements of capabilities
  - c. Deletion of obsolete capabilities
  - d. All of the mentioned

Answer: Option (d)

- 15. Different activity of a project management is
  - a. Project planning
  - b. project control
  - c. project monitoring
  - d. All the above

Answer: Option (d)

16. Which of the following activity is undertaken immediately after feasibility study and before the requirement analysis and specification phase?

- a. Project planning
- b. project control
- c. project monitoring
- d. Project scheduling

Answer: Option (a)

- 17. This activity is undertaken once the development activities start?
  - a. Project planning
  - b. project monitoring & control
  - c. project cost estimation
  - d. Project size estimation



Answer: Option (b)

18. Which of the following activity is not the part of project planning?

- a. Risk Management
- b. Project control
- c. Project monitoring
- d. Project scheduling

Answer: Option (c)

- 19. In the project planning, which of the following is considered as the most basic parameter based on which all other estimates are made?
  - a. project cost
  - b. project size
  - c. project effort
  - d. project duration

Answer: Option (b)

- 20. During project estimation, project manager estimates following
  - a. ALL
  - b. Project size
  - c. Project effort
  - d. project duration.

Answer: Option (a)

- 21. Which of the following is not project management goal?
  - a. Keeping overall costs within budget
  - Delivering the software to the customer at the agreed time
  - Maintaining a happy and well-functioning development tea
  - d. Avoiding customer complaints

Answer: Option (d)

- 22. Which of the following is not considered as a risk in project management?
  - a. Specification delays
  - b. Product competition
  - c. Testing
  - d. Staff turnover

Answer: Option (c)

- 23. The process each manager follows during the life of a project is known as
  - a. Project Management
  - b. Manager life cycle
  - c. Project Management Life Cycle
  - d. All of the mentioned

Answer: Option (c)

- 24. A 66.6% risk is considered as
  - a. very low
  - b. low
  - c. moderate
  - d. high

Answer: Option (d)

- 25. Which of the following is/are main parameters that you should use when computing the costs of a software development project?
  - a. travel and training costs
  - b. hardware and software costs
  - effort costs (the costs of paying software engineers and managers)
  - d. all of the mentioned

Answer: Option (d)

26.Quality planning is the process of developing a		30	is not a project manager's activity.	
qual	lity j	plan for	a.	project design
	a.	team	b.	project management
	b.	project	c.	project planning
	c.	customers	d.	project control
	d.	project manager		Answer: Option (a)
	An	swer: Option (b)	31. Whi	ich of the following software maintenance
27.	Whi	ich of the following is incorrect activity for	process	models is used when major changes are to
the o	conf	figuration management of a software	be made	e in a software?
syste	em?	?		
			a.	Primary model
	a.	Internship management	b.	Secondary model
	b.	Change management	c.	Tertiary model
	c.	Version management	d.	Any of the above
	d.	System management		Answer: Option (a)
	An	swer: Option (a)		
		ftware project that meets all the given	32. Whi	ich of the following statements is true?
				D 6
obje	cuv	ves is a success of	i.	Reverse software engineering cycle is
	a.	Project fundamental purpose		done when the client's need, old code, etc. are not available.
	b.	Project quality	ii.	Reverse software engineering cycle is
	c.	Project requirement		done when the client's need, old code, etc.
	d.	Project management myth		are available.
		swer: Option (d)	Options	:
29_		is not an effective software project	a.	Only i is true
man	age	ement focus.	<b>а.</b> b.	Only ii is true
	0	People		•
	a.	reopie	c.	Both i and ii are true
	b.	Product	d.	None of them is true.
	c.	Process	An	swer: Option (a)
	d.	popularity.	33. The	Software Configuration Management
	Δn	swer: Option (d)	(SCM)	is called the umbrella activity.
	AII	swer. Opnon (u)	a. False	

b. True		38. The Software Configuration items are		
Answe	r: Option (a)			
		a. Software Requirements		
34. The	e main aim of Software Configuration	b. Design Specification		
Manag	ement (SCM) is	c. Source Code		
a.	Identify change	d. All of these		
b.	Control change	Answer: Option (d)		
c.	To ensure that the change is being			
	properly implemented	39. The task that is not a part of Software		
d.	All of these	Configuration Management (SCM) is		
	Answer: Option (d)	a. Change control		
		b. Version control		
35. Sel	ect the process that will ensure different	c. Configuration status reporting		
version	as of the system and components of the	d. None of the above		
system	are recorded and maintained?	e. None of these		
		Answer: Option (d)		
a.	Workspace			
b.	code control	40. Which of the following combines procedures		
c.	Configuration Control	and tools to manage different versions of		
d.	Versions	configuration objects that are created during the		
Answer: Option (c)		software process?		
		a. Configuration status reporting.		
36. Sel	ect the Software Configuration Management	b. Version control		
concep	t that aids to control change?	c. Change control		
a.	Procedure	d. None of the above		
b.	Baseline	Answer: Option (b)		
c.	Audit			
d.	None of the above	41. As the reliability increases, what happens to the		
Ans	swer: Option (b)	failure intensity?		
		a. Increases		
37. The	e output of the Software Process is	b. Decreases		
a.	Computer programs	c. No effect		
b.	The Documents which describe the	d. None of the above		
	computer programs.	e. None of these		
c.	Data (within the program or external to	Answer: Option (b)		
	program).	42. The process each manager follows during the		
d.	All of these	life of a project is known as?		
Ans	swer: Option (d)	a. Project Management		
		b. Manager life cycle		
	56 University Academy	o. manager me eyere		
	Oniversity Academy			

## c. Project Management Life Cycle

d. All of the mentioned

Answer: Option (c)

43. What stores all changes and info related to the project from development through maintenance in CASE tools?

a. Database

## b. Repository

- c. Register
- d. Files

Answer: Option (b)

44. \_\_\_\_\_is the associated with the Product Risk.

### a. Test object

- b. non-availability of the test environment
- c. Negative consequences
- d. Control of test item
- e. None of these

Answer: Option (a)

45. one of the following factors affect the probable consequences?

## a. Risk timing

- b. Contingency planning
- c. Risk avoidance
- d. Risk monitoring
- e. None of these

Answer: Option (a)

46.\_\_\_\_\_is the Risk management most important jobs.

## a. Project manager

- b. Production team
- c. Investor
- d. Client

Answer: Option (a)

47. one of the following is Risk management responsibility?

- a. Project team
- b. Investor
- c. Developer
- d. Customer

Answer: Option (a)

48. one of the following ways to deal with a Risk?

- a. Transfer
- b. Ignore
- c. Mitigate
- d. All of these

Answer: Option (d)

49. \_\_\_\_model is used to Project risk factor.

- a. Prototyping model
- b. Waterfall model
- c. Spiral model
- d. None of these

Answer: Option (c)

50. \_\_\_\_strategies means that the impact of the risk will be reduced.

- a. Contingency plans
- b. Avoidance strategies
- c. Minimization strategies
- d. All of these

Answer: Option (c)

51. RE indicates\_\_\_\_

## a. Risk exposure

- Related expense
- c. Risk expense
- d. Risk evaluation

Answer: Option (a)

52. one of the following is Risk?

- a. The negative consequence that must occur
- b. The negative consequence that will occur

	TD 4 11	,		F 1
c.	The negative consequence that could			Forward engineering
	occur	c		Reverse Engineering
d.	The negative consequence that shall occur			Reverse Engineering and Reengineering
e.	None of these	Answer	:: (	Option (a)
	wer: Option (c)			
53	Risk is the really want Building an			erse engineering is the last activity in a
exceller	nt product or system.	re	eng	gineering project.
a.	Business	a		TRUE
b.	Schedule	b		FALSE
c.	Technical			Option (b)
d.	Performance			activity transformes a model into
Ans	wer: Option (a)	so	urc	ce code.
	2 F (2)	a	•	Forward engineering
54 I.eo	acy systems are	b		Reverse engineering
a.	new systems	c		Re-engineering
а. <b>b.</b>	old systems	d		Reconstructing
c.	under-developed systems	Answer	:: C	Option (a)
d.	none of the mentioned			
		60. Sc	oftv	ware evolution does not comprises:
All	swer: Option (b)	a		Development activities
<i></i>		b		Negotiating with client
	is applied to ensure the continued	c.		Maintenance activities
	on of legacy systems.	d		Re-engineering activities
a. •	Forward engineering	Answer	:: C	Option (b)
b.	Reverse Engineering			
c.	Reengineering	61. Pr	oc	esses for evolving a software product
	Reverse Engineering and Reengineering	de	pe	nd on:
An	swer: Option (d)	a		Type of software to be maintained
		b		Development processes used
56. Soft	tware Maintenance includes	c		Skills and experience of the people
a.	Deletion of obsolete capabilities			involved
b.	Enhancements of capabilities	d		All of the mentioned
c.	Error corrections	Answer		Option (d)
d.	All of the given options	1 1115 (1 01		, , , , , , , , , , , , , , , , , , , ,
An	swer: Option (d)	62 W	hic	ch of the following is not a type of
				vare maintenance?
57. Pr	ogram modularization and Source code	a.		Corrective Maintenance
tra	anslation are the activities of	a. b.		Adaptive Maintenance
a	. Reengineering			redictive Maintenance
		c.	r	i culcuve iviamienance

d. Preventive Maintenance

Answer:Option (c)

- 63. Which type of software maintenance deals with the repair of defects found in day-to-day system functions?
  - a. Corrective Maintenance
  - b. Adaptive Maintenance
  - c. Perfective Maintenance
  - d. Preventive Maintenance

Answer: Option (a)

- 64. Which type of software maintenance includes modifications applied to keep the software product up-to-date?
  - a. Corrective Maintenance
  - b. Adaptive Maintenance
  - c. Perfective Maintenance
  - d. Preventive Maintenance

Answer: Option (b)

- 65. Which type of software maintenance includes modifications done in order to keep the software usable over a long period of time, e.g. new features, new user requirements for refining the software and improve its reliability and performance?
  - a. Corrective Maintenance
  - b. Adaptive Maintenance
  - **Perfective Maintenance**
  - d. Preventive Maintenance

Answer: Option (c)

- 66. Which type of software maintenance includes modifications to prevent future problems of software?
  - Corrective Maintenance
  - Adaptive Maintenance
  - Perfective Maintenance
  - d. Preventive Maintenance

Answer: Option (d)

- 67. \_\_\_\_\_ can extract design information from source code.
  - a. Forward engineering
  - b. Reverse Engineering
  - Reengineering
  - d. Reverse Engineering and Reengineering

Answer: Option (b)

- 68. What is the full form of SCM with reference to Software Engineering?
  - Supply Chain Management
  - b. Service Control Manager
  - **Software Configuration Management**
  - d. System Control Module

Answer: Option (c)

- 69. Which is a software configuration management concept that helps us to control change without seriously impeding justifiable change?
  - Data model
  - Source code
  - **Baselines**
  - d. None of the given options

Answer: Option (c)

- 70. Software Configuration Management can be administered in several ways. These include
  - A separate configuration management team for each project
  - b. A single software configuration management team for the whole organization
  - c. Software Configuration Management distributed among the project members
  - d. All of the given options

Answer: Option (b)

71 combines procedures and tools to	b. CMM
manage different versions of configuration	c. CMMI
objects that are created during the software	d. All of the mentioned
process.	Answer: Option (d)
a. Change control	76 involves preparing software for
b. Version control	external release and keeping track of the
c. SCIs	system versions that have been released for
d. None of the mentioned	customer use.
Answer: Option (b)	a. System building
72 complements the formal	b. Release management
technical review by assessing a configuration	c. Change management
object for characteristics that are generally not	d. Version management
considered during the review.	Answer: Option (b)
a. Software configuration audit	77 process ensures that versions of
b. Software configuration management	systems and components are recorded and
c. Baseline	maintained.
d. None of the mentioned	a. Codeline
Answer: Option (a)	b. Configuration control
	c. Version
73 is the process of assembling	d. Workspace
program components, data, and libraries, and	Answer: Option (b)
then compiling and linking these to create an	
executable system.	78. Which of the following process is concerned
a. System building	with analyzing the costs and benefits of
b. Release management	proposed changes?
c. Change management	a. Version management
d. Version management	b. System building
Answer: Option (a)	c. Change management
74 is not a Software Configuration	d. Release management
Management Activity.	Answer: Option (c)
a. Configuration item identification	
b. Risk management	79. Which of the following is not a Version
c. Release management	management feature?
d. Branch management	a. Build script generation
Answer: Option (b)	b. Version and release identification
75. The definition and use of configuration	c. Change history recording
management standards is essential for quality	d. Project support
certification in	Answer: Option (a)
a. ISO 9000	

80. Which method recommends that very frequent	d. Mainline	
system builds should be carried out with	Answer: Option (a)	
automated testing to discover software	85. Effective software project management	
problems?	focuses on	
a. Agile method	a. people, performance, payoff, product	
b. Parallel compilation method	b. people, product, performance, process	
c. Large systems method	c. people, product, process, project	
d. All of the given options	d. people, process, payoff, product	
Answer: Option (a)	Answer: Option (c)	
	86. Organizations that achieve high levels of	
81 is a collection of component	maturity in people management have a higher	
versions that make up a system.	likelihood of implementing effective software	
a. Version	engineering processes	
b. Codeline	a. True	
c. Baseline	b. False	
d. None of the mentioned	Answer: Option (a)	
Answer: Option (c)	87. The first step in project planning is to	
	a. determine the budget.	
82. Which of the following is a configuration	b. select a team organizational model.	
item?	c. determine the project constraints	
a. Log information	d. establish the objectives and scope	
b. Source code	Answer: Option (d)	
c. Design & Test specification	88. Process framework activities are populated	
d. All of the given options	with	
Answer: Option (d)	a. milestones	
	b. work products	
83. A sequence of baselines representing different	c. QA points	
versions of a system is known as	d. all of the above	
a. System building	Answer: Option (d)	
b. Mainline	89. Project management is less important for	
c. Software Configuration Item(SCI)	modern software development since most	
d. None of the mentioned	projects are successful and completed on time	
Answer: Option (b)	a. True	
84. The statement "The creation of a new	b. False	
codeline from a version in an existing	Answer: Option (b)	
codeline" define the term	90. Which of the following is not considered a	
a. Branching	stakeholder in the software process?	
b. Merging		

c. Codeline



a. customers

b. end-users

c. project managers

### d. sales people

Answer: Option (d)

- 91. The best person to hire as a project team leader is the most competent software engineering practitioner available
  - a. True

#### b. False

Answer: Option (b)

- 92. The best project team organizational model to use when tackling extremely complex problems is the
  - a. closed paradigm
  - b. open paradigm
  - c. random paradigm
  - d. synchronous paradigm

Answer: Option (b)

- 93. One of the best ways to avoid frustration during the software development process is to
  - a. give team members more control over process and technical decisions
  - b. give team members less control over process and technical decisions.
  - c. hide bad news from the project team members until things improve.
  - d. reward programmers based on their productivity.

Answer: Option (b)

- 94. Small agile teams have no place in modern software development.
  - a. True
  - b. False

Answer: Option (b)

- 95. Which of these software characteristics is not a factor contributing to project coordination difficulties?
  - a. interoperability

# b. performance

c. scale

d. uncertainty

Answer: Option (b)

- 96. Which of these software characteristics are used to determine the scope of a software project?
  - a. context, lines of code, function
  - b. context, function, communication requirements
  - c. information objectives, function, performance
  - d. communications requirements,
     performance, information objectives
     Answer: Option (c)
- 97. The major areas of problem decomposition during the project scoping activity are the
  - a. customer workflow
  - b. functionality to be delivered
  - c. process used to deliver functionality
  - d. software process model
  - e. b and c

Answer: Option (c)

- 98. Product and process decomposition occurs simultaneously as the project plan evolves.
  - a. True
  - b. False

Answer: Option (a)

- 99. When can selected common process framework activities be omitted during process decomposition?
  - a. when the project is extremely small in size
  - o. any time the software is mission critical
  - rapid prototyping does not require their use
  - d. never the activities are invariant

Answer: Option (d)

- 100. How does a software project manager need to act to minimize the risk of software failure?
  - double the project team size
  - b. request a large budget
  - c. start on the right foot
  - d. track progress
  - e. c and d

Answer: Option (e)

- 101. The W5HH principle contains which of the following questions?
  - Why is the system being developed?
  - b. What will be done by whom?
  - c. Where are they organizationally located?
  - d. How much of each resource is required?
  - e. a, c d

Answer: Option (e)

- 102. Which of these are critical practices for performance-based project management?
  - a. assessing product usability
  - defect tracking against quality targets
  - c. empirical cost estimation
  - d. formal risk management
  - b, c, d

Answer: Option (e)

- 103. A risk referent level is a risk component value (performance, cost, support, schedule) or combination of values that cause a project to be terminated.
  - a. True
  - False

Answer: Option (a)

- 104. An effective risk management plan will need to address which of the following issues?
  - risk avoidance
  - b. risk monitoring
  - contingency planning

#### d. all of the above

Answer: Option (d)

- 105. Proactive risk management is sometimes described as fire fighting
  - True a.

#### b. False

Answer: Option (b)

106. Software risk always involves two characteristics

- fire fighting and crisis management
- known and unknown risks
- uncertainty and loss
- d. staffing and budget Answer: Option (c)

107. Three categories of risks are

- a. business risks, personnel risks, budget risks
- project risks, technical risks, business risks
- planning risks, technical risks, personnel
- management risks, technical risks, design risks

Answer: Option (b)

- 108. Generic risks require far more attention than product-specific risks.
  - True a.
  - b. False

Answer: Option (b)

- 109. A risk item checklist would contain known and predictable risks from which of these categories?
  - product size
  - development environment
  - staff size
  - process definition
  - all of the above

Answer: Option (e)



- 110.Questions that should be asked to assess the overall project risk include:
  - a. Have top managers formally committed to support the project?
  - b. Are end-users committed to the project and proposed system being built?
  - c. Are requirement fully understood by development team and customers?
  - d. Does the proposed budget have time allocated for marketing?
  - e. a, b, c

Answer: Option (e)

- 111.Software risk impact assessment should focus on consequences affecting
  - a. planning, resources, cost, schedule
  - b. marketability, cost, personnel
  - c. business, technology, process
  - d. performance, support, cost, schedule

Answer: Option (d)

- 112.Risk projection attempts to rate each risk in two ways
  - a. likelihood and cost
  - b. likelihood and impact
  - c. likelihood and consequences
  - d. likelihood and exposure
    Answer: Option (c)
- 113.Risk tables are sorted by
  - a. probability and cost
  - b. probability and impact
  - c. probability and consequences
  - d. probability and exposure

Answer: Option (b)

- 114.Individual team members can make their own estimate for a risk probability and then develop a consensus value.
  - a. True
  - b. False

Answer: Option (a)

- 115. Which factors affect the probable consequences likely if a risk does occur?
  - a. risk cost
  - b. risk timing
  - c. risk scope
  - d. risk resources
  - e. b and c

Answer: Option (e)

- 116. The reason for refining risks is to break them into smaller units having different consequences.
  - a. True
  - b. False

Answer: Option (b)

- 117.Effective risk management plan needs to address which of these issues?
  - a. risk avoidance
  - b. risk monitoring
  - c. contingency planning
  - d. all of the above

Answer: Option (d)

- 118. Risk monitoring involves watching the risk indicators defined for the project and not determining the effectiveness of the risk mitigation steps themselves.
  - a. True
  - b. False

Answer: Option (b)

- 119.Hazard analysis focuses on the identification and assessment of potential hazards that can cause
  - a. project termination
  - b. schedule slippage
  - c. cost overruns
  - d. an entire system to fail

Answer: Option (d)

120.Risk information sheets (RIS) are never an acceptable substitute for a full risk mitigation, monitoring, and management (RMMM) plan.

a.	True	a.	True
b.	False	b.	False
	Answer: Option (b)		Answer: Option (b)
121.A	new is defined when major	126. B	usiness process reengineering is often
ch	anges have been made to one or more	ac	companied by software reengineering.
cc	onfiguration objects.	a.	True
a.	entity	b.	False
b.	item		Answer: Option (a)
c.	variant		
d.	version	127.W	hich of the following is not an example of a
	Answer: Option (d)	bu	siness process?
122.W	ebApp configuration objects can be	a.	designing a new product
m	anaged in much the same way as	b.	hiring an employee
cc	onventional software configuration objects	c.	purchasing services
ex	cept for:	d.	testing software
a.	content items		Answer: Option (d)
b.	functional items		
c.	graphic items	128.Bu	siness process reengineering does not have
d.	user items	a s	start or end, it is an evolutionary process.
	Answer: Option (a)	a.	True
		b.	False
123.SCI standards take a formal view and do not			Answer: Option (a)
ad	ldress guidelines for applying change		
m	anagement in agile environments.	129.W	hich of the following activities is not part of
a.	True	the	e software reengineering process model?
b.	False	a.	forward engineering
	Answer: Option (b)	b.	inventory analysis
124.H	ow much effort is typically expended by a	c.	prototyping
so	ftware organization on software	d.	reverse engineering
m	aintenance?		Answer: Option (c)
a.	20 percent		
b.	40 percent	130.Software reengineering process model	
c.	60 percent	includes restructuring activities for which of	
d.	80 percent	the	e following work items?
	Answer: Option (c)	a.	code
125. S	oftware supportability is not concerned with	b.	documentation

d. all of the above

c. data

either the provision of hardware or

infrastructure.

Answer: Option (d)

- 131. Which of the following is not an issue to consider when reverse engineering?
  - a. abstraction level
  - b. completeness
  - c. connectivity
  - d. directionality

Answer: Option (c)

- 132. Reverse engineering of data focuses on
  - a. database structures
  - b. internal data structures
  - c. both a and b
  - d. none of the above

Answer: Option (c)

- 133. The first reverse engineering activity involves seeking to understand
  - a. data
  - b. processing
  - c. user interfaces
  - d. none of the above

Answer: Option (b)

- 134.Reverse engineering should proceed the reengineering of any user interface.
  - a. True
  - b. False

Answer: Option (a)

- 135. Which of these benefits can be achieved when software is restructured?
  - a. higher quality programs
  - b. reduced maintenance effort
  - c. software easier to test
  - d. all of the above

Answer: Option (d)

136.Code restructuring is a good example of software reengineering

a. True

#### b. False

Answer: Option (b)

- 137. Which of these is not an example of data restructuring?
  - a. data analysis
  - b. data name rationalization
  - c. data record standardization
  - d. none of the above

Answer: Option (a)

- 138. Forward engineering is not necessary if an existing software product is producing the correct output.
  - a. True
  - b. False

Answer: Option (b)

- 139.Reengineering client/server systems begins with a thorough analysis of the business environment that encompasses the existing computing system
  - a. True
  - b. False

Answer: Option (a)

- 140. The only time reengineering enters into work with a legacy system is when it components will be implemented as objects.
  - a. True
  - b. False

Answer: Option (b)

- 141. The cost benefits derived from reengineering are realized largely due to decreased maintenance and support costs for the new software product.
  - a. True
  - b. False

Answer: Option (a)