KDK College of Engineering Nagpur Department of Information Technology

Multiple Choice Questions(MCQs)

Subject: Software Engineering

6th Sem BE Information Technology

Unit-1 Software Life Cycle Models

Unit-1 Software Life Cycle Models
1. 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: a
2. RAD stands for
a) Relative Application Development
b) Rapid Application Development
c) Rapid Application Document
d) None of the mentioned
Answer: b
3. 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: d
4. Which is not one of the types of prototype of Prototyping Model?

- a) Horizontal Prototype
- b) Vertical Prototype
- c) Diagonal Prototype
- d) Domain Prototype

Answer: c

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

Answer: b

- 6. 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: d

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

Answer: c

- 8. 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: d

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

Answer: a

- 10. 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: c.

- Q11. Waterfall model is also called as?
- a)Agile process model
- b)Classic life cycle model
- c)Light-Weight Model
- d)None of above

Answer: b

Q12. State True or False

In Plan-driven processes, all of the process activities are planned in advance and progress is measured against this plan.

- a) True
- b) False

- Q13. Software Requirements specification document (SRS) might include:
 - a) Use cases
 - b) Class diagram
 - c) Sequence diagram
 - d) all of above

Answer: d

- Q14. Which of the following is not Users of a requirements document
 - a) System customer
 - b) System Engineer
 - c) Manager
 - d) System Architect

Answer: d

- Q15. Waterfall model is not suitable for
 - a) small projects
 - b) accommodating change
 - c) complex projects
 - d) none of the above

Answer: c

- Q16. If requirements are easily understandable and defined then which model is best suited?
 - a. Spiral model
 - **b.** Waterfall model
 - c. Prototyping model
 - d. None of the above

Answer: b

- Q17. Methods and steps, which are taken while designing the software.
- a) Software Paradigm
- b) Software Manufacturing
- c) Software Analysis
- d) Software maintenance

Answer: a

- Q18. Which is NOT a software characteristic?
- a)Software does not wear out
- b)Software is flexible
- c)Software is not manufactured
- d)Software is always correct

Answer: d

- Q19. Which of the items listed below is not one of the software engineering layers?
- a) Process
- b) Manufacturing
- c) Methods
- d) Tools

- Q20. Which of these are the 5 generic software engineering framework activities?
- a) communication, modeling, planning, construction, deployment
- b) communication, planning, modeling, construction, deployment
- c) analysis, designing, programming, debugging, maintenance
- d) analysis, planning, designing, programming, testing

Answer: b

- Q21. Which of the following are umbrella activities of Software Engineering.
- a) Risk Management
- b) Software quality assurance
- c) Formal Technical Review
- d) all of the mentioned

Answer: d

- Q22. What are attributes of good software?
- a) Software maintainability
- b) Software functionality
- c) Software development
- d) Software maintainability & functionality

Answer: d

- Q23. Which of these software engineering activities are not a part of software processes?
- a) Software dependence
- b) Software development
- c) Software validation
- d) Software specification

Answer: a

Q24. Which of these is true?

- a) Generic products and customized products are types of software products
- b) Generic products are produced by organization and sold to open market
- c) Customized products are commissioned by particular customer
- d) All of the mentioned

Answer: d

- Q25. _____ is the way in which we produce software.
 - a) Product
 - b) Process
 - c) Metric
 - d) Module

Answer: b

- Q26. Which of the following is a phase(s) of software engineering?
 - a) Software analysis
 - b) Software Testing
 - c) Software Maintenance
 - d) All of above

Answer: d

Q27. Efficiency in a software product does not include	
a) responsiveness	

- b) licensing
- c) memory utilization
- d) processing time

Answer: b

Q28. The reason for software bugs and failures is due to

- a) Software companies
- b) Software Developers
- c) Both Software companies and Developers
- d) All of the mentioned

Answer: c

- Q29. What is the major advantage of using Incremental Model?
- a) Customer can respond to each increment
- b) Easier to test and debug
- c) It is used when there is a need to get a product to the market early
- d) Easier to test and debug & It is used when there is a need to get a product to the market early

Answer: d

Q30. What is the major advantage of using Incremental Model?

- a) Customer can respond to each increment
- b) Easier to test and debug
- c) It is used when there is a need to get a product to the market early
- d) Easier to test and debug & It is used when there is a need to get a product to the market early

Answer: d

Unit-2 project scheduling, Feasibility Scope, Software Metrics and measures, make-by decisions

- 1. Which of the following is not a factor useful in decision making process
 - a) Non availability of ready-made solutions
 - b) Cost of ready-made solutions
 - c) Past success or failure in software acquisition
 - d) Perceived risk

Answer: a

- 2. Scheduling in project management includes listing of
 - a) activities,
 - b) deliverables,
 - c) milestones within a project
 - d) all of mentioned

- 3. Which of the following is not a Type of schedules in project management
 - a) Master project schedule
 - b)Milestone schedule
 - c) complete project schedule
 - d) A detailed project schedule

Answer: c

- 4. Milestone schedule is also called as
 - a) summary schedule
 - b)A detailed project schedule
 - c) complete project schedule
 - d) Master project schedule

Answer: a

- 5. The most common form of project schedule is a
 - a) Pie chart
 - b) Gantt chart.
 - c) bar chart
 - d) none

Answer: b

- 6. Task Set for Project Planning includes following
 - a) Establish project scope
 - b) Determine feasibility
 - c) Define required resources
 - d)all of mentioned

Answer: d

- 7. Which of the following is not describe by Software scope- b
 - a) functions and features
 - b)maintainability and adaptability
 - c) Contents
 - d) data

- 8. Techniques used to define scope are-
- a) narrative description of software scope

- b) set of use cases
- c) Both a & b
- d) none of mentioned

Answer: c

- 9. Dimensions of Software feasibility are
 - a) Technology
- b) Finance
- d) Time
- d) all of mentioned

Answer: d

- 10. Major categories of software engineering resources includes
- a) People
- b) Development environment
- c)Reusable software components
- d) all of mentioned

Answer: d

- 11. In software development resources, Planners must identify which of the following parameters for hardware and software and verify that these resources will be available
- a) the time window required
- b) the space window required
- c) both a & b
- d) none of above

Answer: a

- 12. Approaches used to Generate an estimate of the software's size are
- a) Problem-based estimation
- b) Process-based estimation
- c) Project-based estimation
- d) both a & b

Answer: d

- 13. Which one is not a category of software metrics?
- a) Product metrics
- b) Process metrics
- c) Project metrics
- d) People metrics

Answer: d

- 14. LOC is a
- a) metric
- b) code
- c) Line Of Code
- d) both (a) & (c)

- 15. Which of the following is not a direct measure of SE process?
- a) Efficiency
- b) Cost
- c) Effort Applied
- d) All of the mentioned

Answer: a

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

Answer: d

- 17. 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: c

- 18. In Halstead theory, effort is measured in
- a) Person-months
- b) Hours
- c) Elementary mental discriminations
- d) None of the above

Answer: a

- 19. Which is not a size metric?
- a) LOC
- b) Function count

- c) Program length
- d) Cyclomatic complexity

- 20. Which one is not a measure of software science theory?
- a) Vocabulary
- b) Volume
- c) Logic
- d) Level

Answer: c

- 21. Defects removal efficiency (DRE) depends on:
- a) E errors found before software delivery
- b) D defects found after delivery to user
- c) Both E and D
- d) Varies with project

Answer: c

- 22. According to the COCOMO model, a project can be categorized into
- a) 3 types
- b) 5 types
- c)6 types
- d) No such categorization

Answer: a

- 23. In Intermediate COCOMO model, Effort Adjustment Factor (EAF) is derived from the effort multipliers by
- a) Adding them
- b)Multiplying them
- c) Taking their weighted average
- d) Considering their maximum

Answer: b

- 24. Project metrics are estimated during which phase?
- a)Feasibility study
- b) Planning
- c) Design
- d) Development

Answer: b

25. According to Halsetad's metrics, program length is given by the

- a) Sum of total number of operators and operands
- b) Sum of number of unique operators and operands
- c) Total number of operators
- d. Total number of operands

- 26. Complete COCOMO considers a software as a
- a) Homogeneous system
- b)Heterogeneous system
- c)can not say
- d)None

Answer: b

- 27. Consider you are developing a web application, which would make use of a lot of web services provided by Facebook, Google, Flickr. Would it be wise to make estimates for this project using COCOMO?
- a)Yes, of course
- b) Not at all
- c) Not sure
- d)none

Answer: a

- 28. Main types of schedules used in project management are-
- a) Master project schedule
- b) Milestone schedule
- c) A detailed project schedule
- d) All of mentioned

Answer: d

- 29. Which schedule tracks major milestones and key deliverables, but not every task required to complete the project.
- a) Master project schedule
- b) Summary schedule
- c) A detailed project schedule
- d) All of mentioned

- 30. Milestone schedule is also called as -
- a) Summary schedule

- b) A detailed project schedule
- c) Main project schedule
- d) None of mentioned

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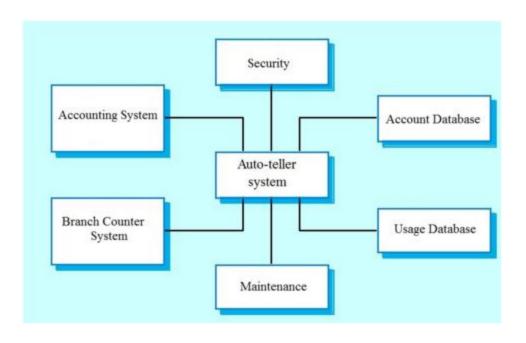
CC	U-3 Requ	irement Engineering	
1.	Which one is no a) b) c) d)	ot a step of requirement engineering? Requirements elicitation Requirements analysis Requirements design Requirements documentation	С
2.	Requirements	elicitation means	d
	a) b) c) d)	Gathering of requirements Capturing of requirements Understanding of requirements All of the above	
3.	SRS stands for	a	
	b) c)	Software requirements specification System requirements specification Systematic requirements specification	S
4.	d) SRS document	None of the above d	
4.		"What" of a system?	
	b) c)	How to design the system? Costing and scheduling of a system System's requirement.	
5.	•	ot a type of requirements?	
	b)	Known requirements Unknown requirements Undreamt requirements Complex requirements	
6.	,	ot a requirements elicitation technique	.5 q
	(a) (b) (c)	Interviews The use case approach FAST Data flow diagram.	
7.		eview process is carried out to b	
	(a)	Spend time in requirements gathering Improve the quality of SRS Document the requirements	,
8.	FAST stands for	С	
	(a)	Functional Application Specification T	echnique

	(b) Fast Application Specification Technique
	(c) Facilitated Application Specification Technique
	(d) None of the above
9. (QFD in requirement engineering stands for d
	(a) Quality function design
	(b) Quality factor design
	(c) Quality function development
10	(d) Quality function deployment
10.	Which of the following is not a Categories of requirements in QFD are
	a) Normal
	b) Exciting
	c) Expected
11	d) Challenging Who controls the FAST (Facilitated Application Specification Techniques) meeting 2
11.	Who controls the FAST (Facilitated Application Specification Techniques) meeting? c
	a) System Analyst b) Scribe
	c) Facilitator
	d) Manager
MC	Q-Requirement Elicitation analysis
12.	Who proposed template for writing Use cases a
	(a) Jacobson & others
	(b) Cockburn & others
	(c) Pressman & others
	(d) None
13.	Use Cases are for the description of user requirements modeled in a structured
	language like English. b
	(a) unstructured outline or template
	(b) structured outline or template
	(c) graphical representations
14.	What are the types of requirement in Quality Function Deployment(QFD)?
	a) Known, Unknown, Undreamed
	b) User, Developer
	c) Functional, Non-Functional
1 -	d) Normal, Expected, Exciting
15.	Who distinguished between primary and secondary actor of use cases c (a) Jacobson & others
	(b) Pressman & others
	(c) Cockburn & others
	(d) None
16	What kind of approach was introduced for elicitation and modelling to give a functional view of
10.	the system?
	a) Object Oriented Design (by Booch)
	b) Use Cases (by Jacobson)
	c) Fusion (by Coleman)
	d) Object Modeling Technique (by Rumbaugh)
17.	Repositories to store information about all data items defined in DFD is – d
	(a) Data Directory

	(b) Data definition(c) Directory Definition(d) Data Dictionary
18.	In E-R diagram, Attribute is represented by symbol. b (a) Rectangle (b) Ellipse (c) Diamond shaped
	(d) None
19.	How many feasibility studies is conducted in Requirement Analysis ? b
	a) Two
	b) Three
	c) Four
	d) None of the mentioned
20.	and are the two issues of Requirement Analysis.
	a) Performance, Design
	b) Stakeholder, Developer
	c) Functional, Non-Functional
	d) None of the mentioned
21.	Which of the following property does not correspond to a good Software Requirements
	Specification (SRS) ?
	a) Verifiable
	b) Ambiguous
	c) Complete
	d) Traceable
22.	Which of the following statements about SRS is/are true?
	i. SRS is written by customer
	ii. SRS is written by a developer
	iii. SRS serves as a contract between customer and developer
	a) Only i is true
	b) Both ii and iii are true
	c) All are true
	d) None of the mentioned
23.	The SRS document is also known as specification. a
	a) black-box
	b) white-box
	c) grey-box
	d) none of the mentioned
24.	Which of the following is not included in SRS?
	a) Performance
	b) Functionality
	c) Design solutions
	d) External Interfaces

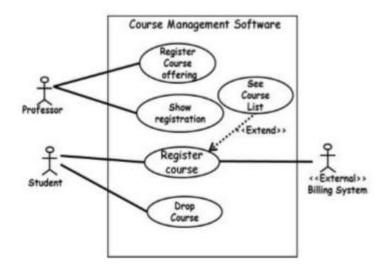
Data Modeling analysis

26.	 a) Business stakeholders and Data Architects b) Data Architects and Business Analysts c) DBA and developers d) None Which of the following is not a diagram studied in Requirement Analysis? d a) Use Cases b) Entity Relationship Diagram c) State Transition Diagram d) Activity Diagram 	
27.	Techniques used to model data & process in scenario based modelling is a) Use case diagram b) Activity diagram c) Both a & b	
28.	 d) None Which model in system modelling depicts the dynamic behaviour of the system? b a) Context Model b) Behavioral Model c) Data Model d) Object Model 	
29.	Which model in system modelling depicts the static nature of the system ? d a) Behavioral Model b) Context Model c) Data Model d) Structural Model	
30.	The UML supports event-based modeling using diagrams. c a) Deployment b) Collaboration c) State chart d) All of the mentioned	
31.	Which system model is being depicted by the ATM operations shown below:)



- a) Structural model
- b) Context model
- c) Behavioral model
- d) Interaction model
- 32. Which of the following Requirement Elicitation Techniques is applicable to messy, changing and ill-defined problem situations?
 - a) Quality Function Deployment (QFD)
 - b) Prototyping
 - c) Soft Systems Methodology (SSM)
 - d) Controlled Requirements Expression (CORE)
- 33. Keeping the requirements of QFD in mind which of the following is/are an example of an Expected Requirement ?(select all possible options
 - a) Ease of software installation
 - b) Overall operational correctness and reliability
 - c) Specific system functions
 - d) Quality graphical display
- 34. Consider the Use-Case Diagram as given-

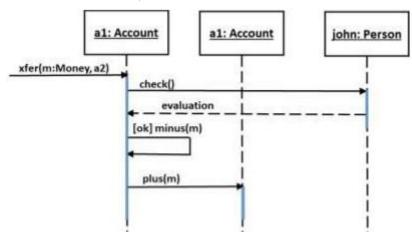
Find the number of controller classes required in domain model for a software development project b



- a) 3
- b) 4
- c) 6
- d) 7
- 35. Consider the Use-Case Diagram as given-

Find the number of boundary classes required in domain model for a software development project b

- a) 4
- b) 5
- c) 6
- d) 7
- 36. Consider the following UML sequence diagram. Based on the given sequence diagram, which method(s) should be implemented for the Account class? b



- a) xfer()
- b) xfer(), plus(), minus()
- c) check(), plus(), minus()
- d) xfer(), evaluation(), plus(), minus()

37.	. Requirements analysis is critical to the success of a development project. a) True	•
	b) Falsec) Depends upon the size of projectd) None of the mentioned	
MCQ-	-U-4-SE	
1.	In Design phase, which is the primary area of concern? a) Architecture b) Data c) Interface d) All of the mentioned View Answer	
Answer	r: d	
2.	The importance of software design can be summarized in a single word which is: a) Efficiency b) Accuracy c) Quality d) Complexity View Answer	
Answer		
	Cohesion is a qualitative indication of the degree to which a module a) can be written more compactly b) focuses on just one thing c) is able to complete its function in a timely manner d) is connected to other modules and the outside world View Answer	
Answer	r: b	
4.	Coupling is a qualitative indication of the degree to which a module a) can be written more compactly b) focuses on just one thing c) is able to complete its function in a timely manner d) is connected to other modules and the outside world View Answer	
Answer		
5.	Design engineering activity deals entirely with thedomain b a) Problem	

	b)	Solution
	c)	Both
	d)	None
6.	Wh	ich of the following is not a design principle for software design b
	a)	Traceable to analysis model
	b)	Should "Reinvent The Wheel"
	c)	Minimize Intellectual distance
	d)	Exhibit uniformity and integration
7.	Wh	ich of following is not a forms of abstraction mechanisms in software design d
	a)	functional abstraction,
	b)	data abstraction and
	c)	control abstraction
	d)	event abstraction
8.	Wh	ich of following is not a an advantages associated with information hiding a
	a)	Leads to high coupling
	b)	Emphasizes communication through controlled interfaces
	c)	Decreases the probability of adverse effects
	d)	Results in higher quality software
9.	A m	nodule is said to be functionally independent if it has b
	a)	Low cohesion and high coupling
	b)	high cohesion and Low coupling
	c)	Low cohesion and Low coupling
	d)	High cohesion and high coupling
10.	Wh	ich one of the following is not carried out during the high-level design of a software system?
	С	
	a)	Module structure,
	b)	Call relationship or invocation relationship among the modules
	c)	Algorithms for individual modules
	d)	Interface among different modules
11.	Wh	ich one of the following is usually not an advantage of designing a system such that the
	mo	dules have functional independence? d
	a)	Reusability
	b)	Testability
	c)	Maintainability
	d)	Run time efficiency
12.	Wh	ich one of the following is the least desirable type of cohesion?
	a)	Functional
	b)	Coincidental
	c)	Temporal
	•	Procedural
13.		he design of a certain system, suppose all error handling functions have been put in a
	mo	dule, then the module will have which one of the following types of cohesion? b

a) Functionalb) Logicalc) Temporald) Procedural
 14. The coupling between to modules is determine by which one of the following? a a) Interface complexity b) Combined size of the two modules c) Combined coherence of the two modules d) Sum of the cyclomatic metrics of the two modules 15. If two modules communicate with each other using two integer values and a floating-point value, then what can be said about the type of coupling between the two modules? a. Data b. Control c. Common d. Content
 16. If two modules communicate with each other using a large integer array, then what can be said about the type of coupling between the two modules? b a. Data b. Stamp c. Common d. Content
 17. Suppose two modules share a large integer array such that the array is visible and modifiable in both the modules, then what can be said about the type of coupling that is existing between the two modules? c a. Data b. Stamp c. Common d. Content
18. Which one of the following characteristics of a design indicates a poor design?a. Large depthb. Large widthc. High fan-outd. High fan-in

1.	Software testing is: d
	a) the process of demonstrating that errors are not present
	b) the process of establishing confidence that a program does what it is supposed to do
	c) the process of executing a program to show it is working as per specifications
2	d) the process of executing a program with the intent of finding errors
2.	
	a) Failures
	b) Bugs
	c) defects
	d) errors
3.	,
	a) User
	b) Developer
	c) Tester
	d) None of above
4.	Pick correct statement from the following c
	a) Every error causes a failure
	b) Every error causes a fault
	c) Every failure is caused by a fault
	d) Every bug causes a failure
5.	Which one of the following is true concerning verification d
	a) Helps answer the question: Have you built the right thing?
	b) Checks the final product against specification
	c) Usually carried out by the test team
	d) Checks whether an artifact produced in a phase confirms to the corresponding artifacts
	produced in a previous phase
6.	Why is it necessary to test a large program at three different levels: unit, integration, as well as
	system levels, rather than testing only at the system level?
	a. It reduces the number of test cases that can be designed
	b. It reduces the test execution effort
	c. It reduces the debugging effort
	d. It reduces test case design effort
Co	de coverage analysis is used to measure which one of the following? b
2 7	Thoroughness of testing
	Quality of test cases
c.	Quality of code
d. I	Distribution of bugs

7.

a) Boundary value testingb) Cause-effect (Decision Table) testingc) Combinatorial testingd) Basic Condition testing			
 9. Which one of the following is an implicit assumption made in equivalence class testing? a a) A program behaves in similar ways to every input value belonging to an equivalence class. b) Different equivalence classes of a program contain similar bugs c) Different equivalence classes of a program contain dissimilar bugs d) Equivalence classes define the behaviorally similar components of a program 			
10. Customers typically carry out which one of the following types of testing?a)Unit testingb) Integration testingc) Acceptance testingd) Regression testing.			
11. Which one of the following types of bugs may not get detected in black-box testing, but are very Likely to be get detected by white-box testing? c a) Syntax errors b)Behavioral errors c)Trojans d)Performance errors			
 12. White-box testing is also called - b a) functional testing b) structural testing c) fault oriented testing d) none 13. Which of the following is not a White box testing technique? 			
a) Boundary value analysis b) Statement Testing c) Decision Testing d) Condition Coverage 14. Acceptance testing is also known as a) Grey box testing b) White box testing c) Alpha Testing d) Beta testing 15. Which of the following is non-functional testing? a) Black box testing b) Performance testing c) Unit testing d) None of the mentioned 16. Which of the following is not used in measuring the size of the software a) KLOC			
15. Which of the following is non-functional testing? a) Black box testing b) Performance testing c) Unit testing d) None of the mentioned			

b) Function Points		
c) Size of module		
d) None of the mention	ned	
17. Unit testing is an exa	ample of	testing technique that is usually performed by the
developer	b	
a) Black Box		
b) White Box		
C) Grey box		
d) none		
18. Integration testing is	s the process of	testing thebetween two software units or module. d
a) methods		
b) procedures		
c) routines		
d) interface		
19. Which of the followi	ing integration t	esting approach is simple and practicable only for very small
systems. c		
a) Top-down		
b) bottom-up		
c) bigbang		
d) smoke testing		

MCQ-Unit-6

"Software Risks and Identification".

- 1. What all has to be identified as per risk identification?
- a) Threats
- b) Vulnerabilities
- c) Consequences
- d) All of the mentioned

Answer: d

- 2. Which one is not a risk management activity?
- a) Risk assessment
- b) Risk generation
- c) Risk control
- d) None of the mentioned

- 3. What is the product of the probability of incurring a loss due to the risk and the potential magnitude of that loss?
- a) Risk exposure
- b) Risk prioritization

- c) Risk analysis
- d) All of the mentioned

- 4. What threatens the quality and timeliness of the software to be produced?
- a) Known risks
- b) Business risks
- c) Project risks
- d) Technical risks

Answer: d

- 5. What threatens the viability of the software to be built?
- a) Known risks
- b) Business risks
- c) Project risks
- d) Technical risks

Answer: b

- 6. Which of the following is not a business risk?
- a) building an excellent product or system that no one really wants
- b) losing the support of senior management due to a change in focus or change in people
- c) lack of documented requirements or software scope
- d) losing budgetary or personnel commitment

Answer: c

- 7. Which of the following is a systematic attempt to specify threats to the project plan?
- a) Risk identification
- b) Performance risk
- c) Support risk
- d) Risk projection

Answer: d

- 8. Which risks are associated with the overall size of the software to be built or modified?
- a) Business impact risks
- b) Process definition risks
- c) Product size risks
- d) Development environment risks

Answer: c

- 9. Which risks are associated with constraints imposed by management or the marketplace?
- a) Business impact risks
- b) Process definition risks
- c) Product size risks
- d) Development environment risks

- 10. Which of the following term is best defined by the statement:"the degree of uncertainty that the product will meet its requirements and be fit for its intended use."?
- a) Performance risk
- b) Cost risk
- c) Support risk
- d) Schedule risk

Answer: a.

- 11. Risk management is one of the most important jobs for a
- a) Client
- b) Investor
- c) Production team
- d) Project manager

Answer: d

- 12. Which of the following risk is the failure of a purchased component to perform as expected?
- a) Product risk
- b) Project risk
- c) Business risk
- d) Programming risk

Answer: a

- 13. Which of the following term is best defined by the statement: "There will be a change of organizational management with different priorities."?
- a) Staff turnover
- b) Technology change
- c) Management change
- d) Product competition

Answer: c

- 14. Which of the following term is best defined by the statement: "The underlying technology on which the system is built is superseded by new technology."?
- a) Technology change
- b) Product competition
- c) Requirements change
- d) None of the mentioned

Answer: a

- 15. What assess the risk and your plans for risk mitigation and revise these when you learn more about the risk?
- a) Risk monitoring
- b) Risk planning
- c) Risk analysis
- d) Risk identification

- 16. Which of the following risks are derived from the organizational environment where the software is being developed?
- a) People risks
- b) Technology risks
- c) Estimation risks
- d) Organizational risks

Answer: d

- 17. Which of the following risks are derived from the software or hardware technologies that are used to develop the system?
- a) Managerial risks
- b) Technology risks
- c) Estimation risks
- d) Organizational risks

Answer: b

- 18. Which of the following term is best defined by the statement: "Derive traceability information to maximize information hiding in the design."?
- a) Underestimated development time
- b) Organizational restructuring
- c) Requirements changes
- d) None of the mentioned

Answer: c

- 19. Which of the following strategies means that the impact of the risk will be reduced?
- a) Avoidance strategies
- b) Minimization strategies
- c) Contingency plans
- d) All of the mentioned

20. Risk management is now recognized as one of the most important project management tasks. a) True b) False Answer: a Reengineering 21. What are the problems with re-structuring? a) Loss of comments b) Loss of documentation c) Heavy computational demands d) All of the mentioned Answer: b 22. Which of the following is not a module type? a) Object modules b) Hardware modules c) Functional modules d) Process support modules Answer: a 23. Reverse engineering of data focuses on a) Internal data structures b) Database structures c) ALL of the mentioned d) None of the mentioned Answer: c 24. Forward engineering is not necessary if an existing software product is producing the correct output. a) True b) False Answer: b 25. Which of the following is not an example of a business process? a) designing a new product b) hiring an employee c) purchasing services d) testing software

- 26. Which of the following is a data problem?
- a) hardware problem
- b) record organisation problems
- c) heavy computational demands
- d) loss of comments

Answer: b

- 27. When does one decides to re-engineer a product?
- a) when tools to support restructuring are disabled
- b) when system crashes frequently
- c) when hardware or software support becomes obsolete
- d) subsystems of a larger system require few maintenance

Answer: c

- 28. Which of the following is not a business goal of re-engineering?
- a) Cost reduction
- b) Time reduction
- c) Maintainability
- d) None of the mentioned

Answer: d

- 29. 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 mentioned

Answer: d

- 30. Data re-engineering may be part of the process of migrating from a file-based system to a DBMS-based system or changing from one DBMS to another.
- a) True
- b) False

Answer: a

- 31. BPR stands for
- a) Business process re-engineering
- b) Business product re-engineering

c) Business process requirements d) None of the mentioned
Answer: a
32. Source code translation is a part of which re-engineering technique?a) Data re-engineeringb) Refactoringc) Restructuringd) None of the mentioned
Answer: c
33. In reverse engineering process, what refers to the sophistication of the design information that can be extracted from the source code? a) interactivity b) completeness c) abstraction level d) direction level
Answer: c
34. In reverse engineering, what refers to the level of detail that is provided at an abstraction level? a) interactivity b) completeness c) abstraction level d) directionality
Answer: b
35. The core of reverse engineering is an activity called a) restructure code b) directionality c) extract abstractions d) interactivity
Answer: c
36. What have become de rigueur for computer-based products and systems of every type? a) GUIs b) Candidate keys c) Object model d) All of the mentioned

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- 37. Forward engineering is also known as
- a) extract abstractions
- b) renovation
- c) reclamation
- d) both renovation and reclamation

- 38. Reverse engineering is the process of deriving the system design and specification from its
- a) GUI
- b) Database
- c) Source code
- d) All of the mentioned

Answer: c

- 39. Reverse engineering techniques for internal program data focus on the definition of classes of objects.
- a) True
- b) False

Answer: a

- 40. Which of the following steps may not be used to define the existing data model as a precursor to reengineering a new database model:
- a) Build an initial object model
- b) Determine candidate keys
- c) Refine the tentative classes
- d) Discover user interfaces

Answer: d

- 41. Much of the information necessary to create a behavioral model can be obtained by observing the external manifestation of the existing
- a) candidate keys
- b) interface
- c) database structure
- d) none of the mentioned

- 42. Extracting data items and objects, to get information on data flow, and to understand the existing data structures that have been implemented is sometimes called
- a) data analysis
- b) directionality
- c) data extraction
- d) client applications

- 43. Reverse engineering and Re-engineering are equivalent processes of software engineering.
- a) True
- b) False

Answer: b

- 44. Transformation of a system from one representational form to another is known as
- a) Re-factoring
- b) Restructuring
- c) Forward engineering
- d) Both Re-factoring and Restructuring

Answer: d

- 45. Which of the following is not an objective of reverse engineering?
- a) to reduce maintenance effort
- b) to cope with complexity
- c) to avoid side effects
- d) to assist migration to a CASE environment

Answer: d