

University of Mumbai

Examination 2020 under cluster 4 (PCE)

Program: BE Information Technology Engineering

Curriculum Scheme: Rev2016

Examination: Third Year Semester VI

Course Code: ITDLO6022 and Course Name: Software Architecture

Time: 1 hour

Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	The data architecture of an organization includes logical and physical data assets and data management resources belongs to
Option A:	Business architecture
Option B:	Information technology (IT) architecture
Option C:	Information architecture
Option D:	Application (software) architecture
Q2.	An application or software system is constructed based on the specification of its form, which satisfies a function. and _____ of it
Option A:	Fabrication
Option B:	Modularization
Option C:	Abstraction
Option D:	Decomposition
Q3.	Problem domain model consists of
Option A:	System Analysis model, Requirement Analysis model
Option B:	Technology Independent , Technology Dependent
Option C:	System Analysis model, Technology Dependent
Option D:	Technology Independent, Requirement Analysis model
Q4.	Which property of ADL ensures modularization such that other systems can also use
Option A:	Composition
Option B:	Abstraction
Option C:	Reusability
Option D:	Configuration
Q5.	What is a Reference Model?
Option A:	It is a division of functionality together with data flow between the pieces
Option B:	It is a description of component types
Option C:	It is standard decomposition of a known problem into parts that cooperatively solve a problem
Option D:	It is a division of functionality together with data flow between the pieces, It is standard decomposition of a known problem into parts that cooperatively solve a problem
Q6.	In 4+1 View model _____ is a viewpoint for representing the static

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	organization of the software with respect to the software development environment
Option A:	Logical Viewpoint
Option B:	Development viewpoint
Option C:	Physical viewpoint
Option D:	Scenario
Q7.	Blueprint for individual applications systems is
Option A:	Information technology (IT) architecture
Option B:	Information architecture
Option C:	Application (software) architecture
Option D:	Information architecture
Q8.	In General Methodology of Design which element recommends intuition can lead to good solution
Option A:	Purposeful thinking
Option B:	Analysis
Option C:	Abstraction
Option D:	Synthesis
Q9.	Solution domain model consists of
Option A:	System Analysis model, Requirement Analysis model
Option B:	Technology Independent , Technology Dependent
Option C:	System Analysis model, Technology Dependent
Option D:	Technology Independent, Requirement Analysis model
Q10.	Which property of ADL ensures dynamic restructuring without knowing internal structure
Option A:	Composition
Option B:	Abstraction
Option C:	Reusability
Option D:	Configuration
Q11.	What is Reference architecture?
Option A:	It is a reference model mapped onto software components
Option B:	It provided data flow with comments
Option C:	It provides data flow with pieces
Option D:	It is a reference model mapped onto software components & data flow with comments
Q12.	In 4+1 View model _____ is a viewpoint for tying all of the other views together.
Option A:	Logical Viewpoint
Option B:	Development viewpoint
Option C:	Physical viewpoint
Option D:	Scenario
Q13.	In management view RUP (Rational Unified Process) defines four fundamental

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	life-cycle phases in management view:
Option A:	1)Inception 2)Elaboration 3)Construction 4)Transition
Option B:	1)Initialization 2)Elaboration 3)Construction 4)Transition
Option C:	1)Inception 2)Elaboration 3)Collaboration 4)Transition
Option D:	1)Inception 2)Elaboration 3)Construction 4)Technology
Q14.	In General Methodology of Design which element recommends decomposition of complex problem
Option A:	Purposeful thinking
Option B:	Analysis
Option C:	Abstraction
Option D:	Synthesis
Q15.	Which property of ADL ensures mixing of architectural styles within single specification
Option A:	Composition
Option B:	Abstraction
Option C:	Heterogeneity
Option D:	Configuration
Q16.	The Seeheim reference model for interacting applications is composed of three software elements: _____, _____ and _____
Option A:	Application, Virtual Application and presentation
Option B:	Application, Virtual Toolkit and presentation
Option C:	Application, dialogue control and presentation
Option D:	Presentation, dialogue control and presentation
Q17.	In 4+1 View model _____ is a viewpoint for representing functional requirements.
Option A:	Logical Viewpoint
Option B:	Development viewpoint
Option C:	Physical viewpoint
Option D:	Scenario
Q18.	In Architecture View _____ phase the software architect prepares the architectural-level design
Option A:	Predesign phase
Option B:	Domain Analysis Phase
Option C:	Schematic Design Phase
Option D:	Design Development Phase
Q19.	In General Methodology of Design which element recommends reduction in the complexity of a problem while emphasizing the essential characteristics
Option A:	Purposeful thinking
Option B:	Analysis
Option C:	Abstraction
Option D:	Synthesis

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Q20.	Which of the following statement are false
Option A:	ADL should have ability to analyse an architecture
Option B:	The ability to abstract the implementation connecting element with architecture specification makes it powerful
Option C:	Understanding ADL helps architect to focus on components and connectors
Option D:	ADL is commonly used
Q21.	The content collaboration metamodel is also known as the_____
Option A:	WSN
Option B:	WSE
Option C:	SEW
Option D:	ESW
Q22.	The five viewpoints of RM-ODP are:
Option A:	Enterprise,Information,Computational,Engineering,Technology
Option B:	Enterprise,Interest,Computational,Engineering,Technology
Option C:	Enterprise,Interest,computational,re-engineering,Technology
Option D:	Enterprise,Interest,Computational,re-engineering,Implementation
Q23.	Phases of Software Engineering View are 1) Requirement Analysis 2) Design 3) Implementation 4)_____
Option A:	Testing
Option B:	Quality
Option C:	Deployment
Option D:	Binary system
Q24.	In General Methodology of Design which element recommends combining of individual elements
Option A:	Purposeful thinking
Option B:	Analysis
Option C:	Abstraction
Option D:	Synthesis
Q25.	Architectural Level of Design includes
Option A:	Applying Design Principles
Option B:	Applying Design Principles and Using system Thinking
Option C:	Using System thinking
Option D:	System abstraction and applying design principles

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	C
Q2.	A
Q3.	A
Q4	C
Q5	D
Q6	B
Q7	C
Q8.	A
Q9.	B
Q10.	D
Q11.	D
Q12.	D
Q13.	A
Q14.	B
Q15.	C
Q16.	C
Q17.	A
Q18.	C
Q19.	C
Q20.	D
Q21.	B
Q22.	A
Q23.	C
Q24.	D
Q25.	B