

University of Mumbai
Examination 2020

Program: BE Computer Engineering

Curriculum Scheme: Revised 2012

Examination: Third Year Semester V

Course Code: CPC503 and Course Name: SOOAD

Time: 1 hour

Max. Marks: 50

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

Q1.	The method of design encompassing the process of object oriented decomposition and a notation for depicting both logical and physical and as well as static and dynamic models of the system under design is known as:
Option A:	Object- Oriented Programming
Option B:	Object- Oriented Design
Option C:	Object- Oriented Analysis
Option D:	Object- Optimum Analysis
Q2.	What is the programming style of the object oriented conceptual model?
Option A:	Invariant relationships
Option B:	Algorithms
Option C:	Classes and objects
Option D:	Goals, often expressed in a predicate calculus.
Q3.	The essential characteristics of an object that distinguish it from all other kinds of objects and thus provide crisply defined conceptual boundaries, relative to the perspective of the viewer is called:
Option A:	Encapsulation
Option B:	Modularity
Option C:	Hierarchy
Option D:	Abstraction
Q4.	Abstraction is classified into _____ types
Option A:	4
Option B:	3
Option C:	2
Option D:	1
Q5.	What are the problems with re-structuring?
Option A:	Loss of comments
Option B:	Loss of documentation
Option C:	Heavy computational demands

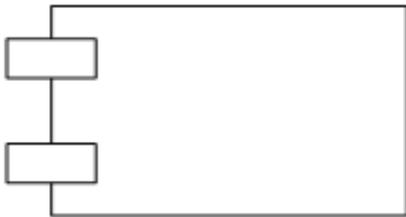
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Option D:	Less Computational demands
Q6.	Which of the following is not a module type?
Option A:	Object modules
Option B:	Hardware modules
Option C:	Functional modules
Option D:	Process support modules
Q7.	Reverse engineering of data focuses on
Option A:	Internal data structures
Option B:	Database structures
Option C:	Internal Data Structures & Database Structures both
Option D:	Functional data
Q8.	Where would you find Business Process Model in the framework grid?
Option A:	Planner view of the function
Option B:	Owner view of the people
Option C:	Owner view of the function
Option D:	planner view of the people
Q9.	Which of the following is not an example of a business process?
Option A:	designing a new product
Option B:	hiring an employee
Option C:	purchasing services
Option D:	testing software
Q10.	Which of the following are parameters involved in computing the total cost of a software development project?
Option A:	Hardware and software costs
Option B:	Effort costs
Option C:	Travel and training costs
Option D:	All of the costs mentioned above
Q11.	Which of the following costs is not part of the total effort cost?
Option A:	Costs of networking and communications
Option B:	Costs of providing heating and lighting office space
Option C:	Costs of lunch time food
Option D:	Costs of support staff
Q12.	What is related to the overall functionality of the delivered software?
Option A:	Function-related metrics
Option B:	Product-related metrics
Option C:	Size-related metrics
Option D:	Time-related metrics
Q13.	A _____ is developed using historical cost information that relates some

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	software metric to the project cost.
Option A:	Algorithmic cost modelling
Option B:	Expert judgement
Option C:	Estimation by analogy
Option D:	Parkinson's Law
Q14.	Which diagram indicates the behavior of the system as a consequence of external events?
Option A:	data flow diagram
Option B:	state transition diagram
Option C:	control specification diagram
Option D:	workflow diagram
Q15.	A description of each function presented in the DFD is contained in a _____
Option A:	data flow
Option B:	process specification
Option C:	control specification
Option D:	data store
Q16.	At highest level, a DFD is referred to as :
Option A:	Scope diagram
Option B:	Context diagram
Option C:	Level 1 DFD
Option D:	Level 2 DF
Q17.	A data model contains
Option A:	data object
Option B:	Attributes
Option C:	Relationships
Option D:	Data objects, Attributes & Relationships
Q18.	Data store in DFD represents
Option A:	a sequential file
Option B:	a disk store
Option C:	a repository of data
Option D:	a random access memory
Q19.	A software might not allow a user to interact via
Option A:	keyboard commands
Option B:	mouse movement
Option C:	voice recognition commands
Option D:	mental commands
Q20.	Which of the following appropriately explains the desirable characteristic of good system design?

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Option A:	Modular approach
Option B:	Proper documentation
Option C:	Conversion
Option D:	Long discussions
Q21.	What incorporates data, architectural, interface, and procedural representations of the software?
Option A:	design model
Option B:	user's model
Option C:	mental image
Option D:	system image
Q22.	Which of the following UML diagrams has a static view?
Option A:	Collaboration
Option B:	Use case
Option C:	State chart
Option D:	Activity
Q23.	What type of core-relationship is represented by the symbol in the figure below?
	
Option A:	Aggregation
Option B:	Dependency
Option C:	Generalization
Option D:	Association
Q24.	Which core element of UML is being shown in the figure?
	
Option A:	Node

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Option B:	Interface
Option C:	Class
Option D:	Component
Q25.	What type of relationship is represented by Shape class and Square? <pre>classDiagram class ShapeClass class Triangle class Square Triangle -- > ShapeClass Square -- > ShapeClass</pre>
Option A:	Realization
Option B:	Generalization
Option C:	Aggregation
Option D:	Dependency