

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Program: BE Computer Engineering

Curriculum Scheme: Rev 2012


Examination: Third Year Semester V

Course Code: CPC503 and Course Name: Structured & Object Oriented Analysis and Design

Time: 1 hour

Max. Marks: 50

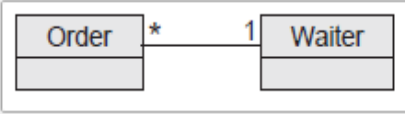
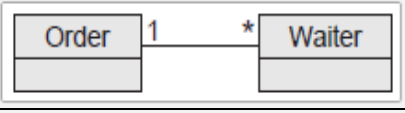

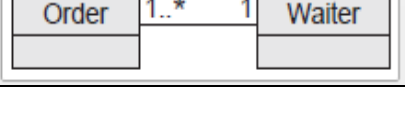
Note to the students: - All the Questions are compulsory and carry equal marks.

Q1.	Interviewing method for information gathering is about
Option A:	Reviewing reports forms of existing system
Option B:	Conducting JAD
Option C:	meeting individual or group of users and list of questions are discussed
Option D:	Observe user directly at their job site
Q2.	Which diagram shows the configuration of run-time processing elements?
Option A:	Deployment diagram
Option B:	Component diagram
Option C:	Node diagram
Option D:	ER-diagram
Q3.	A structural relationship that specifies that objects of one thing are connected to objects of another, which of the following term is best defined by this statement
Option A:	Association
Option B:	Aggregation
Option C:	Realization
Option D:	Generalization
Q4.	Which of the following statements about the given diagram are true? 
Option A:	The composite objects form a tree structure.
Option B:	If an instance of A is deleted, the contained instances of B are not affected.
Option C:	A is part of B.
Option D:	If an instance of B is deleted, all contained instances of A are also deleted.
Q5.	Mistakes are made in the system analysis stage show up in
Option A:	System design
Option B:	System Development
Option C:	Implementation
Option D:	System modelling
Q6.	Which of the following is not a traditional method of collecting system requirements?
Option A:	Interviewing
Option B:	RAD
Option C:	Observations
Option D:	Document analysis

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Q7.	All the operations in a transaction need to be completed before the database changes are made _____
Option A:	functional
Option B:	available to the users
Option C:	permanent
Option D:	operational
Q8.	_____ diagram defines how the business process or computer system interacts with its environment—primarily the external entities.
Option A:	Context Level DFD
Option B:	Class Diagram
Option C:	Level 1 DFD
Option D:	Level 2 DFD
Q9.	Systems that involve interaction with a shared database can be considered as.
Option A:	software based
Option B:	transaction based
Option C:	server based
Option D:	client based
Q10.	What incorporates data, architectural, interface, and procedural representations of the software?
Option A:	design model
Option B:	user's model
Option C:	system image
Option D:	mental image
Q11.	Which of these is true with respect to interfaces?
Option A:	Interfaces realized by a class or a component are required interfaces
Option B:	Interfaces in component diagram defines relationship between components and environment
Option C:	Provide a view of the hardware system's topology
Option D:	Show which software elements are deployed by which hardware elements.
Q12.	If you are working on real-time process control applications or systems that involve concurrent processing, you would use a
Option A:	Activity diagram
Option B:	Sequence diagram
Option C:	State chart diagram
Option D:	Object diagram
Q13.	Managers who are potential users of the management information system
Option A:	Select the optimum equipment configurations
Option B:	Evaluate alternate equipment configurations
Option C:	Describe information needs
Option D:	Gather user requirements

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Q14.	What is not correct about An external entity in DFD
Option A:	is a person
Option B:	organization
Option C:	system that is external to the system, but interacts with it
Option D:	Database
Q15.	Which of these is not an example of intangible costs
Option A:	Lost productivity
Option B:	Survival
Option C:	Reduced employee morale
Option D:	Lost customers or sales
Q16.	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
Q17.	Which among the following is not the valid notation for component diagram?
Option A:	Device
Option B:	Package
Option C:	Interface
Option D:	Database
Q18.	How do you model the following situation with a UML class diagram: An order is made with exactly one waiter, one waiter handles multiple orders.
Option A:	
Option B:	
Option C:	
Option D:	
Q19.	The elements of Deployment diagram are:
Option A:	Module, Device, Association
Option B:	Processor, Device Node, Relation
Option C:	Processor, Device Node, Execution Environment Node
Option D:	Module, Association, Relation, Interface

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Q20.	What is structured Walkthrough ?
Option A:	A technique for validating the requirements, it is a review of findings from the investigation made and models built based on those finding.
Option B:	A technique to define requirements or design a system in a single session
Option C:	Is a feasibility analysis process
Option D:	Method used for testing feasibility
Q21.	What is the most important component of decision support system?
Option A:	Architecture design
Option B:	Database
Option C:	User interface
Option D:	Mathematical model
Q22.	The best way to identify risks is simply to have a
Option A:	Scaling
Option B:	Performance
Option C:	Brainstorming
Option D:	Reliability
Q23.	_____ usually are not included on the context diagram
Option A:	process
Option B:	external entity
Option C:	data store
Option D:	data flow
Q24.	Issues like current low level of computer competency, Substantial computer phobia are included in
Option A:	Resource Feasibility
Option B:	Technical feasibility
Option C:	Economic feasibility
Option D:	Organizational And Cultural Feasibility
Q25.	In the stakeholder group Executive users are
Option A:	The kind of user Who need current information from the system, such as operational staff or customer
Option B:	Responsible for performing daily procedure effectively and efficiently
Option C:	User of the system interested in strategic information of the system, also they make use of this information for comparing overall improvement in in resource utilization
Option D:	External users accessing the system

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