

Program: BE Computer Engineering

Curriculum Scheme: Revised 2012

Examination: Third Year Semester V

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

Time: 1hour

Max. Marks: 50

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

Q1.	For predictive SDLC, which statement interprets it correct
Option A:	approach that assumes that the development project can be planned and organized in advance and that the new information system can be developed according to the plan.
Option B:	Approach when the exact requirements of a system or the users' needs are not well understood
Option C:	developers must be flexible and adapt the project as it progresses
Option D:	Systems having high technical risk.
Q2.	Modification in the system development is due to
Option A:	new computers are introduced in the market
Option B:	user's requirements change
Option C:	new software tools become available in the market
Option D:	other similar organization modify these system
Q3.	User requirements are determined to _____
Option A:	determine whether information is needed by an organization
Option B:	determine what information is needed by an organization
Option C:	determine how information needed by an organization can be provided
Option D:	determine when information is to be given
Q4.	The main objective of feasibility study is
Option A:	to assess if it is possible to meet the requirements specified subject to constraints of budget, human resource and hardware
Option B:	to assess whether it is possible to meet the requirements specifications
Option C:	to assist the management in implementing the desired system
Option D:	to remove bottlenecks in implementing the desired system
Q5.	From given options one is important stakeholder
Option A:	Entry level personnel
Option B:	Middle level stakeholder
Option C:	Users of the software
Option D:	Managers

Q6.	From developer point of view _____ is also a requirement
Option A:	Both Portability and maintainability
Option B:	Portability
Option C:	Maintainability
Option D:	Availability
Q7.	A cost that occurs in proportion to some usage factor is called
Option A:	fixed cost
Option B:	list cost
Option C:	variable cost
Option D:	closed cost
Q8.	The candidate systems matrix documents similarities and differences between candidate systems. Which statement is correct for the same
Option A:	The columns of the matrix represent characteristics that differentiate the candidates.
Option B:	The columns of the matrix represent methods to solve issues
Option C:	The rows of the matrix represent characteristics that differentiate the candidates.
Option D:	The rows of the matrix represent methods to solve issues
Q9.	In OOAD ___ diagram is mostly used
Option A:	Entity Relationship Diagram
Option B:	Class Diagram
Option C:	Context Diagram
Option D:	Data flow Diagram
Q10.	Data can not flow from
Option A:	external entity to process
Option B:	process to store and back
Option C:	process to process
Option D:	entity to store
Q11.	Analysts can apply rules while developing the DFDs or during a separate quality check after preparing DFD drafts, which rule does not belong to DFDs
Option A:	Minimizing Complexity
Option B:	Ensuring Data Flow Consistency
Option C:	rule of $7 \pm 2$
Option D:	Classes are defined clearly
Q12.	In ___ UML diagram use cases also used to show different activities
Option A:	Use-case diagram
Option B:	Activity diagram
Option C:	Deployment Diagram
Option D:	Class Diagram

Q13.	one condition in activity diagram is a guard condition which helps_____
Option A:	the trigger for a transition, which causes the object to leave the origin state
Option B:	a description of the activities performed as part of a transition
Option C:	a sequential set of connected states and transitions
Option D:	a true/false test to see whether a transition can fire
Q14.	A manufacturing company wants to keep track of products. What will be the usecase in this statement?
Option A:	Manufacturing company
Option B:	keeps track of products
Option C:	products
Option D:	Company product
Q15.	To describe any part of system in UML _____are used
Option A:	Behavioral things
Option B:	Grouping things
Option C:	Structural things
Option D:	Annotational things
Q16.	Have we specified in detail how and where the system will store all of the information needed by the organization? this question is which point of designing.
Option A:	Design the application architecture and software
Option B:	Design the user interface(s)
Option C:	Design the system interface(s)
Option D:	Design and integrate the database.
Q17.	This layer contains the user interface in layered architecture
Option A:	View Layer
Option B:	Business Logic Layer
Option C:	Data Layer
Option D:	Process Layer
Q18.	System Flowchart of traditional approach to design is made after
Option A:	Use-case diagram
Option B:	Class Diagram
Option C:	Data Flow Diagram
Option D:	Sequence Diagram
Q19.	Moving from analysis model to design model, which of the following diagram is made in design phase.
Option A:	Use-case diagram
Option B:	CRC model
Option C:	State diagram
Option D:	Class realizations

Q20.	studentID is the primary key attribute found in analysis of class. What would be the correct design class representation?
Option A:	studentID: integer
Option B:	studentID: float
Option C:	-studentID: integer {key}
Option D:	studentID: + float
Q21.	Visibility in design class means
Option A:	a notation of whether an attribute can be directly accessed by another object
Option B:	a notation that shows all of the information needed to invoke the method
Option C:	a notation that shows some of the information needed to call method
Option D:	a notation of whether an methods will be invoked
Q22.	The Golden Rules in system design include
Option A:	Place the Program in Control
Option B:	Increase the User's Memory Load
Option C:	Offer Informative Feedback
Option D:	Disclose information together.
Q23.	In which kind of architecture does thin client or thick client can be implemented?
Option A:	File Server System
Option B:	Stand alone system
Option C:	System with LAN
Option D:	Client Server System
Q24.	What does a deployment diagram does not consists of
Option A:	Computational resource
Option B:	Communication path between resource
Option C:	Artifacts that execute resource
Option D:	Element
Q25.	_____diagrams used to distribute files, libraries, and tables across topology of hardware
Option A:	deployment diagrams
Option B:	use case diagrams
Option C:	sequence diagrams
Option D:	collaboration diagrams