## **Multiple Choice Questions: Answer Key**

Name of the Faculty: Prof G.M.Walunjkar

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Q. No	Description Question	Choice	Unit No.	Difficulty Level (Easy / Medium / Hard	Blooms Taxonomy Level
1	A is a physical or replaceable part of a system that conforms to and provides the realization of set of interfaces.	a. node b. object c. Component d. interface	-	Medium	2
2	SDLC stands for	a. System Design life cycle  b.Software Development Life cycle  c. System Development Life cycle  d. None of the mentioned	_	Easy	1
3	A is a physical element that exists at run time and represents a computational	a.node b.class	I	Easy	1

	resource.	c.package d.component			
4	An association indicates the relationship between	a. nodes b.classes c. interfaces d.objects	I	Medium	2
5	Which of these does not affect different types of software as a whole?	a. Heterogeneity b. Flexibility c. Business and social change d. Security	I	Easy	2
6	A relationship between classes and interfaces can be viewed as relationship.	a.association b.generalization c.link d.realization	I	Medium	2
7	A is a condition or situation during the life of an object during which it satisfies some condition, performs some activity, or waits for some events.	a.class <b>b.state</b> c. activity d. specification	I	Hard	2
8	A constraint is used to rules of a UML building block.	a. add b. modify c. both a and b d.none	I	Hard	3
9	The architecture of a software-intensive system can be described by views.	a. One b. Six c. Three d. Five	I	Hard	4
10	The view addresses the performance, scalability and throughput of the system	a.use case b. process c. implementation d. design	I	Medium	2

12	The view addresses the configuration management of the system's releases  Models help us to a system as it is or the way it is wanted.	a.use case b. process c. implementation d. design a. Analyze b. Design c. Visualize d. Measure	ı	Easy Medium	2
13	The explanatory parts of the UML model are known as	a. Behavioral things b. Grouping things c. Structural things d. Annotational things	I	Medium	2
14	RUP stands for created by a division of	a. Rational Unified Program, IBM b. Rational Unified Process, Infosys c. Rational Unified Process, Microsoft d. Rational Unified Process, IBM	I	Easy	1
15	are used to create new building blocks from existing blocks.	a. Tagged Values b. Stereotypes c. Constraints d. Diagrams	I	Medium	2
16	In which phase is the scope of the project defined?	a. Inception b. Elaboration c. Construction d. Transition	I	Easy	1
17	To hide the internal implementation of an object we use	a) inheritance	I	Medium	2

		b) encapsulation			
		c) polymorphism d) none of these			
18	A component diagram address the static view of system.	a stuctural b. behavioral c. implementation d. none	I	Hard	3
19	If the objects focus on the problem domain, then we are concerned with	<ul> <li>a. Object Oriented</li> <li>Analysis</li> <li>b. Object Oriented Design</li> <li>c. Object Oriented</li> <li>Analysis and Design</li> <li>d. None of the above</li> </ul>	-	Hard	3
20	Identify the following who presented the object modeling technique (OMT).	(a) Booch  (b) Jim Rumbaugh ET AL (c) Jacobson ET AL (d) Both (a) and (b) above	I	Hard	2
21	Which of the following statements is <b>false</b> with respect to the diagram given below?  Building 1.* Room 0.*	(a) The building is composed of one or more rooms (b) An aggregation relationship exists between the building and the room (c) A room can have many rooms (d) There is a recursive composition in the above diagram	_	Hard	4

22	Which type of association does the following diagram depict?  Team  Player	<ul><li>(a) aggregation</li><li>(b) composition</li><li>(c) specialization</li><li>(d)</li><li>generalization</li></ul>	ľ	Easy	1
23	Software is defined as	<ul><li>a. Instructions</li><li>b. Data Structures</li><li>c. Documents</li><li>d. All of the mentioned</li></ul>	I	Easy	1
24	What are the signs that a software project is in trouble?	<ul><li>a. The product scope is poorly defined.</li><li>b. Deadlines are unrealistic.</li><li>c. Changes are managed poorly.</li></ul>	I	Hard	4
25	A class is divided into which of these compartments ?	a) Name Compartment b) Attribute Compartment c) Operation Compartment d) All of the mentioned	I	Easy	1
26	In Unified Modeling Language, diagrams which captures system static structure and provide foundation for other models is called	a) deployment diagrams b) class diagrams c) component diagrams d) object diagrams	I	Medium	2
27	Abstraction has types.	a. 1 b. 4	I	Medium	2

		c. 2			
		d. 3		_	
28	What is a Software ?	a. Software is set of	l	Easy	2
		programs			
		b. Software is			
		documentation and conf	iguratio	n of data	
		c. Both a and b			
		d. None of the mentioned			
29	CRC approach and noun phrase	a) classes	I	Medium	2
	approach are used to identify				
		b) colaborators			
		,			
		c) use cases			
		c) use cases			
		d) object			
30	Arrange the following activities	a. 1, 4, 3, 2	I	Easy	2
	for making a software product	b. 4, 3, 1, 2			
	using	c. 4, 1, 3, 2			
	i. Design strategy	d. 1, 3, 4, 2			
	ii. Transformation into product	, , ,			
	iii. Implementation				
	iv. Requirement gathering				
31	Abstraction provide an	a) encapsulation	I	Easy	2
	operation named as				
		b) call back			
		,			
		c) turndown			
		c) tarridown			
		d) inheritance			

32	To distunguish between active and non-active object which property is applied?	a) abstraction b) polymophism c) concurrency d) aggregation	_	Easy	2
33	Aggregation is	a) set of relationship  b) composed of relationship  c) part of relationship  d) all of these	I	Hard	2
34	A model is a of reality.	<ul><li>a. Complication</li><li>b. Simplification</li><li>c. Realization</li><li>d. Generalization</li></ul>	ı	Hard	4
35	In which principle, the models created explain the identification of a problem and	a. The Choice of Model is Important b. Levels of Precision May	I	Easy	1

	find its solution?	c. The Best Models are connected to Reality d. No Single Model is Sufficient			
36	Algorithmic and object-oriented are the two common ways for modeling	<ul><li>a. Non-software Systems</li><li>b. Software Systems</li><li>c. Vocabulary of a System</li><li>d. Client/Server System</li></ul>	I	Hard	3
37	helps to communicate the overall system architecture unambiguously.	<ul><li>a. Flow charts</li><li>b. Designing</li><li>c. SRS</li><li>d. Templates</li></ul>	I	Easy	2
38	defines the system's actions and how different parts contribute to it.	a. Behavior b. Structure c. Model d. Use case	-	Hard	1
39	can be done for both simple and complex systems.	<ul><li>a. Generalization n</li><li>b. Specification cm,</li><li>c. Modeling</li><li>d. Collaboration</li></ul>	I	Medium	2

40	The best kind of models helps to choose	a. Degree of detail b. Design view c. Single model d. Choice of model	I	Hard	4
41	A set of models are used to approach a complex system.	<ul><li>a. Dependent w"</li><li>b. Independent</li><li>c. Both dependent and independent</li><li>d. Different</li></ul>	I	Medium	2
42	An Object-oriented program is structured as a community of interacting agents, called	a. True b. False	I	Medium	2
43	Which of the following property does not correspond to a good Software Requirements Specification (SRS) ?	a. Objects b. Classes c. Functions d. Statements	I	Easy	2
44	UML is useful to a system as it is or as we want it to be.	<ul><li>a. Visualize</li><li>b. Specify</li><li>c. Document</li><li>d. All of the above</li></ul>	I	Hard	3

45	A collection of operations that specify the services rendered by a class or component known as	<ul><li>a. Class</li><li>b. Interaction</li><li>c. Interface</li><li>d. Collaboration</li></ul>	I	Medium	2
46	is an abstraction of a set of functions that the system performs.	<ul><li>a. Class</li><li>b. Interaction</li><li>c. Use case</li><li>d. Collaboration</li></ul>	I	Medium	2
47	is a physical element that exists at runtime and represents a computational resource.	a. Node b. Actor c. Name d. Object	I	Medium	2
48	If the software process were based on scientific and engineering concepts, it would be easier to re-create new software than to scale an existing one.	a. True b. False	I	Easy	1
49	Which one of the following is not a structural thing?	a. Class  b. Package  c. Use case  d. Node	I	Hard	3
50	A link is an instance of	a. Generalization	I	Easy	2

		b. Association			
		c. Dependency d. Realization			
51	Which of the following is used to create new building blocks from existing blocks	<ul><li>a. Tagged Values</li><li>b. Stereotypes</li><li>c. Constraints</li></ul>	II	Medium	2
		d. Diagrams			
52	All public methods in business model objects are defined directly or indirectly because of a requirement.	a. Use case b. Dependency c. Association d. Sequence	II	Medium	2
53	In class diagram, inside each class what is to be printed?	a. Its name, attributes, operations and derived class b. Its name, attributes and operations c. Its name and attributes d. Its name and operations	II	Easy	1
54	Key elements of use-case diagrams are	<ul> <li>a. People, computer</li> <li>b. Actors, use cases</li> <li>c. People, classes</li> <li>and objects</li> <li>d. Uses, cases</li> </ul>	II	Hard	3

55	Aggregation relationship is represented in UML notation by	a.Line with solid diamond at one end b.Line with hollow diamond at one end c.Line with an arrow at one end d. Line without an arrow	II	Hard	2
56	Modality is the term used to indicate whether or not a particular data object must participate in a relationship.	a. Yes b. No	II	Hard	3
57	The maximum number of objects that can participate in a relationship is called	<ul><li>a. Cardinality</li><li>b. Attributes</li><li>c. Operations</li><li>d. Transformers</li></ul>	II	Easy	1
58	Software Requirement Specification should come up with following features:  1) User Requirements are expressed in natural language. 2) Technical requirements are expressed in structured language, which is used inside the organization. 3) Design description should be written in Pseudo code.	a. True b. False	II	Easy	1
59	What type of relationship is represented by Shape class and Square ?	<ul> <li>a. Realization</li> <li>b. Generalizatio     n</li> <li>c. Aggregation</li> <li>d. Dependency</li> </ul>	II	Medium	2
60	UML interfaces are used to	<ul><li>a. Define an API for all classes</li><li>b. Program in Java, but</li></ul>	II	Easy	2

		not in C++ or Smalltalk			
		HOU III CTT OF SITIALICAIN			
		c. Define executable logic			
		to reuse across classes			
		d Chasify required			
		d. Specify required services for types of			
		objects			
		Objects			
61	An actor is	a. A person	П	Hard	4
		b. A job title			
		c. A role			
		d A system			
		d. A system			
62	allows us	a. Realization	II	Easy	1
	to infer that different members	b. Aggregation			
	of classes have some common characteristics.	c. Generalizatio			
	characteristics.	n			
		d. dependency			
63	Which model in system	a. Behavioral Model	II	Medium	2
	modelling depicts the static	b. Context Model			
	nature of the system ?	c. Data Model			
		d. Structural Model			
64	Which of these software	a. Only performance.	II	Medium	2
	characteristics are used to	b. Only context.			
	determine the scope of a	c. Information objectives,			
	software project?	d. None of the above.			
65	The system icon identifies	a. The boundaries of the	II	Easy	1
		system		,	
		h The scene of the			
		b. The scope of the project so			
		project so			
		c. The context of the			

		system			
		d. Another system in the role of an actor			
66	The software scope identifies what the product will do and what it will not do, what the end product will contain and what it will not contain.	a. True b. False	II	Easy	1
67	Devices and other systems	a. May be actors	II	Medium	1
		<ul><li>b. May only receive output from a use case</li><li>c. May only provide input to a use case</li><li>d. Are out of scope because we are describing only one system at</li></ul>			
68	Associations	a. May exist only between actors and use cases b. Identify the flow of data between actors and use cases c. Identify interactions between actors and use cases d. Identify dependencies between actors and use cases	II	Hard	3
69	Which UML diagram is shown	a. Use Case	II	Medium	2

	below?  User ID  Basic Salary  Accountant  HPA  Salary Calcustor  System  Bonus  Penalty/Fine	b. Collaboration Diagram c. Class Diagram d. Object Diagram			
70	Which things are dynamic parts of UML models	<ul><li>a. Structural things</li><li>b. Behavioral things</li><li>c. Grouping things</li><li>d. Annotational things</li></ul>	II	Easy	1
71	Use cases	<ul> <li>a. Identify business processes</li> <li>b. Identify system goals</li> <li>c. Describe workflow</li> <li>d. Prioritize system procedures</li> </ul>	II	Easy	2
72	Which of the following term is best defined by the statement:"a structural relationship that specifies that objects of one thing are connected to objects of another"?	<ul><li>a. Association</li><li>b. Aggregation</li><li>c. Realization</li><li>d. Generalizatio</li><li>n</li></ul>	II	Easy	2
73	Which document is created by system analyst after the requirements are collected from Various stakeholders?	a. Software requirement specification b. Software requirement validation	II	Medium	2

		c. Feasibility study d. Requirement Gathering			
74	What refers to the value associated with a specific attribute of an object and to any actions or side?	a. Object  b. State  c. Interface  d. None of the mentioned	II	Easy	1
75	In OOD, the attributes(data variables) and methods( operation on the data) are bundled together is called .	a. Classes b. Objects c. Encapsulation d. Inheritance	II	Medium	1
76	Which of the following are the valid relationships in Use Case Diagrams	<ul><li>a. Generalization</li><li>b. Include</li><li>c. Extend</li><li>d. All of the mentioned</li></ul>	II	Medium	2
77	Which of the following is a building block of UML	<ul><li>a. Things</li><li>b. Relationships</li><li>c. Diagrams</li><li>d. All of the mentioned</li></ul>	II	Medium	З
78	Classes and interfaces are a part of	<ul><li>a. Structural things</li><li>b. Behavioral things</li><li>c. Grouping things</li><li>d. Annotational things</li></ul>	II	Hard	4
79	What can be requested from any object of the class to affect behavior?	<ul><li>a. object</li><li>b. attribute</li><li>c. operation</li><li>d. instance</li></ul>	II	Medium	2
80	The UML was designed for describing	<ul> <li>a. object-oriented systems</li> <li>b. architectural design</li> <li>c. SRS</li> <li>d. Both object-oriented</li> <li>systems and Architectu</li> </ul>	 ral desi	Hard gn	2

81	Class responsibilities are defined	a. its attributes only	II	Hard	2
	by	b. its collaborators			
		c. its operations only			
		d. both its attributes			
		and operations			
82	Events occur whenever an	a. actor and the OO	II	Hard	2
		system exchange			
		information			
		b. class operation is invoke			
		c. messages are passed be	tween o	bjects	
		d. all of the above		_	
83	The association stereotype	a. Delegation of part of a	II	Medium	2
	«Extends» indicates	task to another use case			
		b. The target use case is a			
		subprocess of the source			
		use cases			
		c. A specialized form of a			
		use case			
		d. A deviation from the			
		UML standard			
84	For purposes of behavior	a. consumer or producer o	f II	Hard	4
	modeling a state is any	data.			
		b. data object hierarchy.			
		c. observable mode of			
		behavior.			
0.5	241:1 66 11 : : : : : : : : : : : : : : :	d. well defined process.		D. 4. 11	2
85	Which of following is not a UML diagram used creating a system	a. activity diagram	II	Medium	2
	analysis model?	b. class diagram			
	,	c. dataflow			
		diagram			
06	For adjusting to	d. state diagram		F-	
86	Forward engineering and reverse engineering can be	a. class diagram b. stereotypes	II	Easy	1
	Treverse engineering can be	D. Stereotypes			

	applicable to	c. tagged values d. adornments			
87	A generalized description of a collection of similar objects is a	a. class b. instance c. subclass d. super class	II	Hard	3
88	Which of the following diagram is used to model the vocabulary of a system?	a. Object Diagram b. Activity Diagram c. Class diagram d. Interaction Diagram	II	Medium	2
89	What does a simple name in UML Class and objects consists of ?	a) Letters b) Digits c) Punctuation Characters d) All of the mentioned	II	Medium	2
90	Which of the following is false?	a) A note is a dog-eared box connected to any model element by a dashed line b) The main way to extend UML is by constraints, properties, etc c) A dependency relation holds between two entities D and I where change in I does not affect D d) All of the mentioned	II	Medium	2
91	Requirements should specify 'what' but not 'how'.	a. True b. False	II	Medium	2

92	Which of the following in incorrect in reference to dependency?	a) Module D uses module I when a correct version of I must be present for D to work correctly b) Module D depends for compilation on module I c) Class I imports elements from package D d) None of the mentioned	II	Easy	1
93	Modelling is a representation of the object-oriented classes and the resultant collaborations will allow a system to function.	a. True b. False	11	Easy	1
94	model static data structures.	a. Object Diagram b. Activity Diagram c. Class diagram d. Interaction Diagram	II	Easy	1
95	Requirements can be gathered from users via interviews, surveys, task analysis, brainstorming, domain analysis, prototyping, studying existing usable version of software, and by observation.	a. True b. False	II	Easy	1
96	In the requirement analysis which model depicts how the software behaves as a consequence of external events?	a. Class-Oriented models b. Scenario-based models c. Flow-oriented models d. Behavioural models	II	Easy	1
97	Which of the following describes" Is-a-Relationship"?	<ul><li>a. Aggregation</li><li>b. Inheritance</li><li>c. Dependency</li><li>d. None of the above</li></ul>	II	Hard	4
98	model static data structures.	<ul><li>a. Object diagrams</li><li>b. Activity diagrams</li><li>c. Class diagrams</li></ul>	II	Easy	1

		d. Interaction diagrams			
99	Abstract class doen not have its direct instance. True or False	a.True b.False	II	Easy	1
100	Forward engineering in UML is the process of transforming	a. a code into a model b. a code into design n c. a model into a code d. a model into test	II	Hard	4
101	UML activity diagrams are useful in representing which analysis model elements?	<ul><li>a. Behavioral elements</li><li>b. Class-based elements</li><li>c. Flow-based elements</li><li>d. Scenario-based elements</li></ul>	III	Medium	2
102	In an Activity Diagram, organizing the activities into groups is calleda. forking	a.forking b.joining c.swimlane d. synchronization	III	Medium	2
103	is used to represent concurrent flows in an Activity Diagram.	<ul><li>a. Slide bar</li><li>b. Synchronization bar</li><li>c. Swim lane</li><li>d. Branch</li></ul>	III	Medium	3
104	Objects placed in an Activity Diagram are connected to the activity or transition using relationship.	<ul><li>a. association</li><li>b. generalization</li><li>c. dependency</li><li>d. realization</li></ul>	III	Hard	2
105	is a path from one activity state to the next activity state.	a. Action state b. Activity state c. Transition d. Fork	III	Easy	1

106	Executable atomic computations are called as	a. action states b. activity states c. composite states d. concurrent states	III	Medium	4
107	Activity diagram is a special kind of	a. use case diagram b. state chart diagram c. interaction diagram d. component diagram	III	Medium	4
108	Executable non atomic computations are called as	a. action states b. activity states c. transitions d. simple states	III	Medium	3
109	which of the following is NOT present in an Activity Diagram?	a. Action States b. Objects c. Events d. Notes	III	Medium	2
110	In an Activity Diagram, transitions belongs to	<ul> <li>a. trigger oriented transitions</li> <li>b. self transitions</li> <li>c. internal transitions</li> <li>d. completion transitions</li> </ul>	III	Easy	1
111	uses the services of the system under design to fulfill the goals.	a. Primary actor b. Supporting actor c. Offstage actor d. Secondary actor	III	Easy	2
112	Which of the following diagrams is used to model business workflows?	<ul><li>a. Deployment diagram</li><li>b. Activity diagram</li><li>c. Use Case diagram</li></ul>	III	Easy	1

		d. Interaction diagram			
113	The scenario of a use case is graphically represented using	a. deployment diagram b. sequence diagram c. use case diagram d. interaction diagram	III	Easy	1
114	A is a stream of messages exchanged between objects.	a. sequence b. modeling c. transition d. objects	III	Easy	1
115	An shows an interaction consisting of a set of objects and their relationships, including the messages.	a. interaction diagram b. class diagram c. use case diagram d. activity diagram	III	Easy	1
116	diagram illustrates use case realizations.	a. Sequence b. Class c. use case d. Activity	III	Medium	2
117	Which of the following doesn't include in message types?	a. Call b. Return c. Send d. Delete	III	Hard	3
118	Interaction diagrams are of types.	a. 1 b. 2 c. 3 d. 4	III	Easy	2
119	are used to model the dynamic aspects of collaborations.	<ul><li>a. Sequence Diagrams</li><li>b. Structural</li><li>c. Interactions</li></ul>	III	Easy	1

		d. Messages			
120	A set of messages exchanged among a set of objects is called as	a. use case b. activity c. interaction d. deployment	III	Easy	1
121	Sequence of messages is emphasized by diagram.	a. state chart b. sequence c. activity d. collaboration	III	Easy	1
122	specifies a path to send and receive messages between two objects.	a. Link b. Sequencing c. Object d. Role	III	Easy	1
123	which diagram is used to show interactions between messages are classified as?	A) activity B) state chart C) collaboration D) object lifeline	III	Medium	3
124	diagram is time- oriented?	A) Collaboration B) Sequence C) Activity D) None of the mentioned	III	Easy	1
125	which term are combined Interaction Diagram?	A) Sequence Diagram + Collaboration Diagram B) Activity Diagram + State Chart Diagram C) Deployment Diagram + Collaboration Diagram D) None of the mentioned	III	Easy	1
126	can model the behavior of an individual object.	a. Class b. Use case c. State machine d. Activity	III	Easy	1

127	A is a behavior that specifies the sequence of states an object goes through during its lifetime in response to events.	a. class b. state machine c. use case d. activity	III	Hard	3
128	A is a condition during the life of an object during which it satisfies performs some activity or waits for some event.	a. class b. state c. actor d. component	III	Easy	1
129	A is a relationship between two states indicating that an object in the first s will enter the second state.	a. transition b. state c. association d. generalization	III	Medium	2
130	A state that has substates, that is nested states, is called	a. composite state b. history state c. target state d. source state	III	Easy	1
131	Inside the states, the events are encountered to handle without leaving the state. This is known as	a. state machine b. state transition c. internal transition d. external transition	III	Hard	3
132	is the state that is active after completion of the transition.	a. Composite state b. History state c. Target state d. Source state	III	Medium	1
133	A The relationship between two	a. transition	III	Easy	1

	states is called	b. state c. association d. generalization			
134	are handled without causing a change in state.	a. Transitions b. Events c. Signals d. State	III	Easy	1
135	Which of the following is used to model the life time of an object?	a. Use Case b. Class c. State Machine d. Interface	III	Hard	3
136	State that is active after the completion of the transition is called	a. source state b. target state c. history state d. final state	III	Medium	2
137	Which of the following is present in a nested concurrent state machine?	a. Initial State b. Final State c. History State d. Concurrent sub state	III	Easy	1
138	Absolute time of an event is modeled as	a. timing constraint b. timing mark c. timing expression d. timing semantics	III	Easy	1
139	State chart Diagrams are needed	a. when a class has complex life cycle b. when the execution of scenario is to be traced c. to allocate classes and objects to modules d. to allocate processes to	III	Hard	4

		processors			
140	The state diagram	a. depicts relationships between data objects b. depicts functions that transform the data c. indicates how data are transformed by the s d. indicates system reactions to external ev	system	Hard	3
141	Which of the following can estimate size of project directly from problem specification?	a. LOC b. Function point Metric c. COCOMO d. COCOMO II	III	Hard	3
142	Which of the following is a type of UML diagram:	<ul><li>a. Collaboration</li><li>b. Context</li><li>c. User Interface</li><li>d. None of the above</li></ul>	III	Easy	2
143	If the system is performing no function thenit is in	A. Clear State  B. Initial State  C. Final State  D.Reset State	III	Easy	1
144	The vertcal dimension of a sequence diagram shows	a) abstract b) line c) time d) messages	III	Hard	3
145	The time oriented diagram include	a) sequence	III	Easy	1

		b) classes			
		c) activity			
		d) none of these			
	In a sequence diagram, the	(A)command line	III	Easy	1
	indicates when an object	(B)focus			
146	sends or receives a message.	(C)request link (D)lifeline			
	Fork and Join terms are	a. Activity Diagram	III	Easy	1
	associated with	b. Use Case Diagram			_
		c. Class Diagram			
147		d. Object Diagram			
- ' /		, ,			
	Timing diagram is a special form	a. True	Ш	Hard	3
148	of a sequence diagram.True or	<b>b.</b> False			
	False				
	Which UML diagram shows the	a. Class	Ш	Hard	3
	objects participating in the	b. Object			
	interaction by their links to each	c. Activity			
149	other and the messages that	${f d}$ . Collaboration			
	they send to each other.				
	Timing diagrams are used to	a. True	Ш	Easy	1
	explore the behaviors of objects	b. False			
150	throughout a given period of				
	time				
	Component diagram is used to	a. inheritance	IV	Medium	2
	describe the between	b. dependencies			
	various software components of	c. classes			
	structural diagram.	d. objects			
151					
	Component diagrams commonly	a. objects	IV	Easy	1
	contain components, interfaces	b. nodes			
	and	c. relationships			
		d. classifiers			
152					
153	A shows the	a. use case diagram	IV	Medium	2
	configuration of run time	b. component diagram			

	processing nodes and the components that live on them.	c. class diagram d. deployment diagram			
154	relationship is used among nodes in deployment diagram.	a. Dependency b. Generalization c. Association d. Aggregation	IV	Medium	2
155	In deployment diagram every name is unique.	a. edge b. node c. arcs d. squares	IV	Easy	1
156	In deployment diagram, a node is represented as a	a. cube n b. cuboids c. prism d. rectangular	IV	Easy	1
157	Component diagram is a collection of vertices and	a. edge b. bipartites c. arcs d. squares	IV	Hard	3
158	Which of the following is not one of the use of component diagram?	a. To model physical databases b. To model executable releases c. To model general view d. To model adaptable systems	IV	Medium	2
159	Which of the following is doesn't included in the component diagram?	a. Dependency b. Generalization c. Association d. Aggregation	IV	Easy	1

160	A diagram shows the organization of a set of components and their relationship	a. component b. interface c. deployment d. architectural	IV	Medium	1
161	are created as a consequence of an executing system.	a. Deployment components b. Work product components c.Execution components d. System components	IV	Hard	3
	Source code files and data files are contained by the components	a. system n b. execution c. deployment d. work product	IV	Medium	2
162					
163	form an executable system like dynamic libraries and executable's	a.Deployment components b. Work product components c. Execution components d. System components	IV	Medium	3
164	The rules and semantics of the UML can be expressed in a form known as	(a) Object modeling language (b) Object constraint language (c) Object specification language (d) Object control language	IV	Easy	1
165	OCL stands for	a. Object Constraints Language b. Object Complete	IV	Hard	3

		Language c. Object Critical Language d. None of the above			
	Applications of OCL are	a.To specify invariants on classes and types in the class model b. To specify type invariant for Stereotypes c. To describe pre- and post conditions on Operations and Methods d. All of the Above	IV	Hard	2
166					
167	Which is true about Axioms	a.Hypothesized from observation b.Common truth	IV	Easy	1
107		c.Always valid			
168		d.All of the Above	IV	Easy	1
169	Object Oriented Design process includes refining UML class Diagram.	<b>a.True</b> b.False	IV	Easy	1
170	Designing Business Layer classes includes apply design axioms to design classes, their attributes, methods, associations ,, strctures and protocols.	a.True b.False	IV	Easy	1
171	Attributes types are	<ul><li>a. Single value attribute</li><li>b. Multi value attribute</li><li>c. Reference to another object</li></ul>	IV	Easy	1

		d.All of the above			
	OCL can be used to define the	a.True	IV	Easy	1
172	class attributes.				
		b.False		_	_
	Visibility can be	a.public	IV	Easy	1
		h protocted			
		b.protected			
		c.private			
173					
		d.All above			
	package may contain both other	a.True	IV	Easy	1
174	packages and ordinary modeling				
	elements.	b.False			_
	Table class mapping is a simple	a.True	IV	Medium	2
	one-to-one mapping of a table to a class and the mapping of	b.False			
175	columns in a table to properties	b.i dise			
1/5	in a class.				
	In Table multiple class mapping	a.True	IV	Easy	1
176	a Single table is mapped to			,	
	multiple non inheriting classes	b.False			
	In Table-inherited classes	a.True	IV	Easy	1
	mapping a single tables maps to				
177	many classes that have common	b.False			
	super class	- T	11.7	Faa:	1
	Multi database systems (MDBS) is a database systems that	a.True	IV	Easy	1
	resides on top of all local	b.False			
	database systems and presents	Sir disc			
	a single database illusion to its				
	users.				
178					
	UI design is a creative process	a.True	IV	Medium	1
179		h Falsa			
	Process of designing view layer	b.False  a. Macro level UI	IV	Medium	1
	classes includes	design process	'V	ivicululli	
	Casses morages	b. Micro level UI			
180		design activities			
		c. Testing usability			

		and user satisfaction d. All of the above			
181	Macro level design process includes identify the interface objects for the class	a.True b.False	IV	Medium	1
182	The OCL makes use of Collection class for describing the constraints.	a.True b.False	IV	Easy	1
183	The symbol used for package visibility is	a. + b. – c. ~ d. *	IV	Medium	1
184	The symbol used for private visibility is	a. + <b>b.</b> - c. ~ d. *	IV	Easy	1
	The symbol used for protected visibility is	a.+ b. – c.*	IV	Easy	1
185		d.#			
186	Major task of access layer are	<ul><li>a.Translate the request</li><li>b.Translate the results</li><li>c. both a and b</li><li>d. none</li></ul>	IV	Easy	1
	Creaing a relational database(schema) from existing object model is called as	a.reverse engineering  b.Forward engineering  c.Backward engineering	IV	Medium	2
187		d. Traditional engineering			
188	Creating a object model from an existing relational databse	a.reverse engineering	IV	Easy	1

	T	1			
	layout is called as	b.Forward engineering			
		c.Backward engineering			
		d. Traditional engineering			
189	The main process in building the object relational systems is defining the relationship between table structure with	b.False	IV	Easy	1
	classes.  Access layer is an intermediate	a.True	IV	Easy	1
190	layer between business layer and physical database, files,ORB, Internet.	b.False		Lasy	
	The access layer classes translate any data related requests from business layer	<b>a.True</b> b.False	IV	Easy	1
191	into appropriate protocol for data access.				
	The three layer architecture consistes of	a.data access layer	IV	Easy	1
		b.business layer			
192		c.View layer			
		d.All of the above			
	The main goal of interface view layer design process in Micro	a.True	IV	Easy	1
193	level design process is to address users needs.	b.False			
	The mail goal of attribute refinement is to make all	a.True	IV	Easy	1
104	attributes suitable to elevate the system into	b.False			
194	implementation.				
	In OCL,The subclass of Collection class are	a.Self	IV	Easy	1
	Collection class are	b.Sequence			
195		c.Both a and b			
193		d.None			

	The purpose of access layer is to create, a set of classes that know how to communicate with	<b>a.True</b> b.False	IV	Medium	1
196	the place where the date actually reside	D.Faise			
	"One person might have one or more bank accounts". This	a.Single value attribute	IV	Medium	1
	example represents	b.Multivalue attribute			
		c.Reference to another object			
197		d. Passive attribute type.			
	"Names of students who enrolled for particular course"	a.Single value attribute	IV	Easy	1
	This example represents	b.Multivalue attribute			
		c.Reference to another object			
198		d. Passive attribute type			
199	"Simplify classes and their relationships "is one of the step for designing the access layer.	<b>a.True</b> b.False	IV	Medium	1
	The important characteristic of view layer objects is that they	a.True	IV	Easy	1
200	are the only exposed objects of the application with which the user can interact.	b.False			
	Patterns is	a) It solves a software design problem	V	Easy	1
		b) It is a model proposed for imitation			
		c) All of these			
25.		d) None of these			
201					
202	Which of the following benefits provide patterns?	a) Increasing Development Efficiency	V	Easy	1

		b) Promoting Communication  c) Streamlining Documentation  d) All of these			
203	Patterns important due to	<ul> <li>a) They captured design accessible to novices and other experts</li> <li>b) They capture expert design knowledge</li> <li>c) None of these</li> <li>d) All of these</li> </ul>	V	Medium	1
204	——— is a design pattern?	a) Structural b) Abstract Factory c) Behavioral d) All of these	V	Medium	1
205	——— design pattern defines one-to-many dependency between objects	a) Observer pattern b) Factory Pattern c) Facade pattern d) Singleton method pattern	V	Medium	1
206	Which of the following are concerned with communication between objects?	a) J2EE Design Patterns b) Behavioral Design	V	Medium	1

		Patterns			
		c) Creational Design Pattern d) Structural Design Patterns			
	Which one pattern creating duplicate object?	a) Filter Pattern b) Prototype Pattern	V	Medium	1
		c) Bridge Pattern			
207		d) Builder Pattern			
207					
	A visitor class is used which changes the executing algorithm of an element class	A. Business Delegate Pattern	V	Easy	1
		B. Composite Entity Pattern			
		C. Visitor Pattern			
208		D. MVC Pattern			
200				_	
	Which of the following represents the structure and	a) Consequences	V	Easy	1
	behavior of the pattern?	b) Form			
		c) Aplication			
		d) Name			
209					
	Which design pattern suggest multiple classes?	a) Chain of responsibility pattern	V	Easy	1
210		b) Bridge pattern			

		c) Singleton pattern			
		d) State pattern			
	Which of the following is correct about Creational design patterns.	A - These design patterns are specifically concerned with communication between objects.	V	Easy	1
		B - These design patterns provide a way to create objects while hiding the creation logic, rather than instantiating objects directly using new opreator.			
		C - These design patterns concern class and object composition. Concept of inheritance is used to compose interfaces and define ways to compose objects to obtain new functionalities.			
211		D - None of the above.			
	Which of the following describes the Prototype pattern correctly?	A - This pattern builds a complex object using simple objects and using a step by step approach.	V	Medium	2
		B - This pattern refers to creating duplicate object while keeping performance in mind.			
212		C - This pattern works as a bridge between two			

		incompatible interfaces			
		incompatible interfaces.			
		D - This pattern is used			
		when we need to			
		decouple an abstraction			
		from its implementation so that the two can vary			
		independently.			
	Which of the following pattern	A - Bridge Pattern	V	Easy	1
	is used when we need to			-	
	decouple an abstraction from its implementation so that the two	B - Adapter Pattern			
	can vary independently?	C - Prototype Pattern			
		D - Filter Pattern			
213					
	Which of the following pattern creates a chain of receiver	A - Proxy Pattern	V	Hard	2
	objects for a request?	B - Chain of			
		Responsibility Pattern			
		C. Camananad Dattana			
		C - Command Pattern			
24.4		D - Interpreter Pattern			
214					
	Which of the following pattern a	A - Proxy Pattern	V	Easy	2
	request is wrapped under an object as command and passed	B - Chain of Responsibility			
	to invoker object?	Pattern			
		C - Command Pattern			
		D - Interpreter Pattern			
215		- merpreter ruttern			
	Which of the following	A - In this pattern, a class	V	Easy	1
	describes the Strategy pattern	behavior changes based			
216	correctly?	on its state.			

		B - In this pattern, a null object replaces check of NULL object instance.  C - In this pattern, a class behavior or its algorithm can be changed at run time.  D - In this pattern, an abstract class exposes defined way(s)/template(s) to execute its methods.			
	Which of the following is true for Adapter pattern?	<ul> <li>a. An adapter or wrapper is a component that provides a new interface</li> <li>b. An Adapter or Wrapper pattern is a broker pattern that provides a new interface for existing software so that it can be reused</li> </ul>	V for an	Medium existing com	2 ponent
217		<ul> <li>c. Adaptation for reuse is an old technique that has been used since the beginning of software development</li> <li>d. All of the mentioned</li> </ul>			
218	The Adapter patterns provide object-oriented adapters in which of theses varieties?	a. One uses inheritance b. one uses delegation c. All of the mentioned d. None of the mentioned	V	Easy	1
219	A class (the adapter class) may be given a new interface by an adapter class in which of these ways?	a. Class Adapter pattern b. Object Adapter pattern	V	Easy	1

		c. All of the mentioned			
		d. None of the			
		mentioned			
	Which of these states about Object Adapter pattern?	a. The adapter can inherit adapter operations with appropriate semantics and pragmatics, override those with inappropriate semantics or pragmatics, and add operations needed for the new interface  b. The adapter may hold a reference to the adapter and delegate	V	Medium	2
		must work to the adapter object			
220		c. All of the mentioned			
		d. None of the mentioned			
	Which of the following is true for proxy pattern?	<ul> <li>a. Has exactly the same interface as the real object</li> </ul>	V	Medium	2
		<ul> <li>b. Handles routine or illegitimate messages without accessing the real object</li> </ul>			
		<ul><li>c. Delegates messages that it cannot handle to the real object</li></ul>			
221		d. All of the mentioned			
	Which of the following is not	a. virtual proxies	V	Easy	1
	followed by proxy pattern?	b. remote proxies			
		c. access proxies			
222		d. none of the mentioned			
223	Which of the following is consequence for proxy pattern?	a. The Proxy pattern makes (virtual proxies)	s it boss	ible editeter	expenstve ope

		I	ı		T	7
		b. Provides an elegant way	to trea	t remote obj	cts as if they	were loc
		c. Provides a mechanism for proxies)	or imple	menting sup	plier access re	striction
		d. All of the mentioned				
	Which of the following is true	a. A factory method is a no	n-c\u00ebnst	ruct <b>ē</b> ₱ <b>%</b> pera	tion th <del>å</del> t crea	tes and r
	about factory method?	b. Factory methods are wide programming in general		d in mid-leve	l design patte	rns and i
224		c. Factory methods create any special technique fo		_	constructors	or clonin
224		d. All of the mentioned				
	What are the types of factory	a. Factory Method	V	Medium	1	
	pattern?	b. Abstract Method				
		c. All of the mentioned				
225		d. None of the				
	NA/Initials along the state of the state of the	mentioned	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	F	1	=
	Which class that can have only one instance?	a. Adaptor Class	V	Easy	1	
	one motanice.	b. Proxy Class				
226		c. Singleton Class d. Factory class				
	Which of the following are true	,	h a Visa	ıMedium. :	:::::::::::::::::::::::::::::::::::::::	
	for the singleton class?	a. Singleton classes should class exist and that that				
		b. The Singleton pattern ca instances greater than o			slight modific	ations, v
227		c. Access restrictions are u factory method	sually e	asy to add by	restricting th	e visibilit
221		d. All of the mentioned				
	Which of the following are true	a. A clone is a copy of an o	bjeðt	Medium	2	
	for prototype pattern?	b. When values stored in a operation is said to be sl	-	(including re	ferences) are	reprodu
		c. In contrast, a copy opera original composite, and		•	•	
228		d. All of the mentioned	10.0.01			F.4304 II
	Which of the following are consequences for command	a. Reactor patterns provide models	e eVent	dr <b>Medide</b> Bigi	2	-
220	pattern?	b. They decouple clients ar	d targe	ets		
229		c. Encapsulate reactions to	event			

		d. None of the mentioned			
230	Which GRASP pattern helps to find out answer for "Who should be responsible for creating a new instance of some class?	a. Adapter b. Protected Vairation c. Creator d. Fabircation	V	Medium	2
	Defines an interface for creating an object, but let the subclasses decide which class to instantiate. It lets the instantiation differ to subclasses.	a. Builder b. Abstract Factory c. Factory Method d. Prototype	V	Medium	2
231					
	Which design pattern defines one-to-many dependency among objects?	a. Singleton pattern b. Facade Pattern c. Factory method pattern d. Observer pattern	V	Medium	1
232					
233	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	a) Object- Oriented Programming b) Object- Oriented Design c) Object- Oriented Analysis d) None of the mentioned	V	Easy	1
	design is known as: GRASP stands for	a Conoral Bosnovsihilita	V	Face	1
	GNASE STATIOS TOT	a. General Responsibility Assignment Software Patterns	V	Easy	1
234		b. General Responsibility Assignment Software			

		Problem			
		c. Great Responsibility Assignment Software Patterns			
		d. General Relational Assignment Software Patterns			
	The controller pattern assigns the responsibility of dealing	a.True	V	Medium	1
235	with system events to a non-UI class that represents the overall system or a use case scenario	b.False			
	Coupling is a measure of how strongly one element is	a.True	V	Easy	1
236	connected to, has knowledge of, or relies on other elements	b.False			
	High cohesion is an evaluative pattern that attempts to keep objects appropriately focused,	<b>a.True</b> b.False	V	Easy	1
237	manageable and understandable				
	A pure fabrication is a class that does not represent a concept in the problem domain, specially made up to achieve low	a.True b.False	V	Easy	1
238	coupling, high cohesion, and the reuse potential thereof derived				
	GRASP Pattern are	a.Creator	V	Easy	1
		b.Information Expert			
222		c.Low Coupling			
239		d.All above			
240	GRASP helps us in deciding which responsibility should be assigned to which object/class.	a.True b.False	V	Easy	1
241	What is Gang of Four (GOF)?	A - Four authors of Book 'Design Patterns - Elements of Reusable	V	Medium	2

		Object-Oriented Software' are known as Gang of Four (GOF).  B - Gang of Four (GOF) is a name of a book on Design Patterns.  C - Gang of Four (GOF) is a Design Pattern.  D - None of the above.			
242	Event handling frameworks like swing, awt use Observer Pattern.	a.True b.False	V	Medium	2
243	Which of the following pattern works as a bridge between two incompatible interfaces?	A - Builder Pattern  B - Adapter Pattern  C - Prototype Pattern  D - Filter Pattern	V	Medium	2
244	In which of the following pattern, a class behavior changes based on its state?	A - State Pattern  B - Null Object Pattern  C - Strategy Pattern  D - Template Pattern	V	Easy	1
245	Which GOF design pattern is applied in the code snippet below? public class PrintSpooler {   private static final PrintSpooler INSTANCE = new PrintSpooler();   private PrintSpooler() {}	a. PrintSpooler b. Spooler c. Singleton d. Factory	V	Easy	1

	public static PrintSpooler				
	getInstance() {				
	return INSTANCE;				
	1				
	1				
	}				
	Select one:		.,		4
	The term "Delegation" is most	a. Expert	V	Medium	1
	closer to which of the following	b. Creator			
246	GRASP patterns	c. Low Cohesion			
	Select one:	d. Controller			
	Which GRASP pattern asnwers	a. Pure Fabrication	V	Medium	1
	the question "What object	b. Indirection			
	should have the responsibility,	c. Creator			
	when you do not want to violate	d. Polymorphism			
	High Cohesion and Low				
	Coupling, or other goals, but				
247	solutions offered by Expert are				
247	not appropriate?"				
	In the Publish-Subscribe	a. Adapter	V	Hard	2
	messaging model, the	b. Notifier	\ \ \	Tiara	2
		c. Observer			
	subscribers register themselves				
	in a topic and are notified when	d. Factory			
	new messages arrive to the				
248	topic. Which pattern does most				
	describe this model?				
	Which GRASP pattern is suitbale	a. Indirection	V	Easy	1
	to handle alternatives based on	b. Pure Fabrication			
	type?	c. Polymorphism			
249					
		d. Creator			
	Which design pattern you would	a. Factory	V	Easy	1
	you use to limit the class	b. Singleton			
	instantiation to one object?	c. Observer			
	Select one:	d. Adapter			
250		'			
230					
	What makes a good	a. The architecture	VI	Easy	1
	architecture?		'		_
	a. c. necotar c.	may not be the			
		product of a single			
		architect or a small			
251		group			
		b. The architect should			

		have the technical requirements for the system and an articulated and prioritized list of qualitative properties				
		c. The architecture may not be well documented				
		d. All of the mentioned				
	Which of the following are correct statements?	<ul> <li>a. An architecture may or may not defines components</li> <li>b. An architecture is not dependable on requirements</li> </ul>	VI	Easy	1	
		c. An architecture is				
350		foremost an abstraction affect how they are used	of a sy	stem that su	ppresses deta	ils of the
252		d. All of the mentioned				
	What does "Every software system has an architecture" implies?	a. System itself is a component	VI	Medium	2	
		b. Architecture an exist independently of its description or specification				
252		c. All the system to be stable should posses an architecture				
253		d. None of the mentioned				
	What is architectural style?	a. Architectural style is a description of component types	VI	Medium	2	
		b. It is a pattern of run-time control				
254		c. It is set of constraints on architecture				
254		d. All of the mentioned				

	Which of the following can be considered regarding client and	a. Client and server is an architectural style	VI	Medium	1
	server?	b. Client and server may be considered as an architectural style			
255		c. Client and server is not an architectural style			
233		d. None of the mentioned			
	Which of the statements truly concludes client and server relation with architectural styles?	a. They are component types and their coordination is described in terms of protocols that server uses to communicate with each of its clients	VI	Easy	1
		b. Multiple client cannot exist at an instance			
		c. Architecture are countless for client and server but their architectural styles are			
256		different d. All of the mentioned			
	What is Architecture?	a. Architecture is	VI	Medium	2
		b. Architecture is connectors			
257		c. Architecture is constraints			
237		d. All of the mentioned			
	Why is Software architecture so important?	a. Communication among stakeholders	VI	Medium	2
		<ul><li>b. Early Design decisions</li><li>c. Transferable</li></ul>			
258		abstraction of a system			
		d. All of the mentioned			
259	Which lines depict that	a. An implementation	VI	Hard	3

	architecture defines constraints on an implementation?	exhibits an architecture if it conforms to the structural decisions described by the architecture b. The implementation need not be divided			
		into prescribed components  c. An implementation exhibits an architecture if it conforms to the structural decisions described by the architecture and the implementation must be divided into			
		prescribed components			
		d. None of the mentioned			
	Why does architecture dictates organizational structure?	a. Architecture describes the structure of the system being developed which becomes engraved in the development project structure	VI	Hard	3
		b. An implementation exhibits an architecture if it conforms to the structural decisions described by the architecture			
260		c. Architecture may not describe structure as whole			
	La ta manathal a tangent a sa a Pi	d. None of the mentioned	\"	NA add	2
261	Is it possible to make quality predictions about a system based solely on evaluation of its	a. Yes b. No c. May be	VI	Medium	2

	architecture?	d. None of the mentioned			
	Which of the following are the several architectural issues for system's testability?	a. Its level of architectural documentation	VI	Medium	1
	,	<ul><li>b. Its separation of concerns</li></ul>			
		<ul><li>c. The degree to which the system uses information hiding</li></ul>			
262		d. All of the mentioned			
	Which of the following are the	a. Conceptual Integrity	VI	Easy	1
	main aspects for the qualities of architecture?	b. Buildability			
263	aromicotare.	c. Correctness and Completeness			
203		d. All of the mentioned			
	What concept is followed by Conceptual integrity?	<ul> <li>a. Architecture should do different things in different ways</li> </ul>	VI	Medium	2
		<ul><li>b. Architecture should do different things in similar ways</li></ul>			
264		c. Architecture should do similar things in similar ways			
204		d. None of the mentioned			
	Which of the following are essential for the architecture to	a. Conceptual Integrity	VI	Medium	2
	allow for the meeting of all the	b. Buildability c. Correctness and			
265	systems and runtime resource	Completeness			
265	constraints?	d. All of the mentioned			
	Which of the following is true?	a. Architecture is low level design	VI	Medium	1
		<ul><li>b. Architecture is mid level design</li></ul>			
266		c. Architecture is high level design			
		d. None of the mentioned			

What is Architecture of a	a. Design	VI	Medium	2
software based on?	b. Requirements			
	c. All of the mentioned			
	d. None of the			
	mentioned			
What does Software	a. It is the structure or	VI	Medium	2
architecture means?	structure of systems			
	b. It comprises of software components			
	c. Relationship among components			
	d. All of the mentioned			
Point out the wrong statement:	1. SOA provides the standards that transport the messages and makes the infrastructure to support it possible 2. SOA provides access to reusable Web services over a SMTP network 3. SOA offers access to ready-made, modular, highly optimized, and widely shareable components that can minimize developer and infrastructure costs 4. None of the mentioned	VI	Easy	1
Which of the following describes a message-passing taxonomy for a component-based architecture that provides services to clients upon demand	1. SOA 2. EBS 3. GEC 4. All of the mentioned	VI	Easy	1
Which of the following is used to aid for locating services in SOA?	1. catalog service 2. data abstraction services 3. data bus	VI	Easy	2
	Which of the following describes a message-passing taxonomy for a component-based architecture that provides services to clients upon demand?  Which of the following is used to aid for locating services in	b. Requirements c. All of the mentioned d. None of the mentioned a. It is the structure or structure of systems b. It comprises of software components c. Relationship among components d. All of the mentioned  Point out the wrong statement:  1. SOA provides the standards that transport the messages and makes the infrastructure to support it possible 2. SOA provides access to ready-made, modular, highly optimized, and widely shareable components that can minimize developer and infrastructure costs 4. None of the mentioned  Which of the following describes a message-passing taxonomy for a component- based architecture that provides services to clients upon demand ?  Which of the following is used to aid for locating services in SOA ?	b. Requirements  c. All of the mentioned  d. None of the mentioned  a. It is the structure or structure of systems  b. It comprises of software components  c. Relationship among components  d. All of the mentioned  Point out the wrong statement:  1. SOA provides the standards that transport the messages and makes the infrastructure to support it possible  2. SOA provides access to reusable Web services over a SMTP network  3. SOA offers access to ready-made, modular, highly optimized, and widely shareable components that can minimize developer and infrastructure costs  4. None of the mentioned  Which of the following describes a message-passing taxonomy for a component-based architecture that provides services to clients upon demand?  Which of the following is used to aid for locating services in SOA?  1. catalog service  2. data abstraction services  3. data bus	b. Requirements c. All of the mentioned d. None of the mentioned  a. It is the structure or structure of systems b. It comprises of software components c. Relationship among components d. All of the mentioned  Point out the wrong statement:  1. SOA provides the standards that transport the messages and makes the infrastructure to support it possible 2. SOA provides access to reusable Web services over a SMTP network 3. SOA offers access to ready-made, modular, highly optimized, and widely shareable components that can minimize developer and infrastructure costs 4. None of the mentioned  Which of the following describes a message-passing taxonomy for a component- based architecture that provides services to clients upon demand ?  Which of the following is used to aid for locating services in SOA ?  1. catalog service 3. data bus

272	The primary objective of component-based architecture is to ensure	a. <b>component</b> reusability b. security c. integrity d. coupling	VI	Easy	1
273	A component is a modular, portable, replaceable, and reusable set of well-defined functionality that encapsulates its implementation and exporting it as a higher-level interface.	a.True b.False	VI	Easy	1
274	A component can have following views –	<ul> <li>a. object-oriented view</li> <li>b. conventional view</li> <li>c. process-related view.</li> <li>d. All of the Above</li> </ul>	VI	Easy	1
275	Characteristics of Components are	<ul><li>a. Reusability</li><li>b. Replaceable</li><li>c. Extensible</li><li>d. All of the above</li></ul>	VI	Easy	1
276	Ease of deployment is the one of the advantage of component based architecture	a.True b.False	VI	Easy	1
277	A concurrent task (process) is the execution of a sequential component of a concurrent program	a.True b.False	VI	Medium	2
278	when only one task may have access to a resource at a given time is called as	<ul><li>a. Critical access</li><li>b. Mutual Exclusion</li><li>c. Dedicated control</li><li>d. Direct access</li></ul>	VI	Medium	2
279	A real-time system is a software system where the correct functioning of the system depends on the results produced by the system and the	a.True b.False	VI	Medium	2

	time at which these results are produced				
	Example od real time system are	a.radar systems	VI	Medium	2
		b. data streaming			
		c. customer service systems			
280					
		d. All of the Above			
	"Identify the stimuli to be	a.True	VI	Easy	1
	processed and the required responses to these stimuli" is	b.False			
	one of the step in designing	5.1 disc			
	Real Time system.				
281					
	A software product line is a set	a.True	VI	Easy	1
	of software-intensive systems				
	that share a common, managed	b.False			
	set of features satisfying the specific needs of a particular				
	market segment or mission and				
	that are developed from a				
282	common set of core assets in a				
	prescribed way.				
	A product-line architecture	a.True	VI	Easy	1
283	(PLA) is a blue-print for creating	l. e.l			
	families of related applications.	b.False a.True	VI	Foor	1
	Product-line architectures give stakeholders tools with which	a. True	VI	Easy	1
	ordinary product architecture	b.False			
	can be diversified into an				
	artifact suitable for describing				
284	related products i.e. a product				
	line.			_	
	The power of product lines	a.Engineering knowledge	VI	Easy	1
	comes through reuse of-	b.Existing product			
		architectures, styles and			
285		patterns			

		c.Pre-existing software components and			
		d. All of the Above			
		d. All of the Above			
286	Notions of product lines are	<ul> <li>a. Business product lines</li> <li>b. Engineering product lines</li> <li>c. Both a and b</li> <li>d. None</li> </ul>	VI	Easy	1
	Types of Real time system are	a.Soft RTS	VI	Easy	2
		b.Hard RTS			
287		c. both a and b			
		d.None			
	Elements of Web services are	a.UDDI	VI	Hard	4
		b.WSDL			
288		c.SOAP			
		d.All of the above			
	Example of Web services are	a.Credit Card validation system	VI	Medium	2
		b.Weather forecast system			
		c.Currency converter			
289		d.All of the above			
290	In SOA broker is a middleman between clients and servers.	a.True	VI	Medium	2
		b.False			
291	Design Principles for Service Oriented Architecture are	a.Loose Coupling	VI	Medium	2

		b.Service Contract			
		c.Abstraction			
		d.All above			
	Various Client server architecture patterns are	a.Multiple Client and single service	VI	Medium	2
		b.Multiple client and multiple services  c.Multi-tier client service			
292		d.All above			
293	Layers of Abstraction architectural pattern is typically used in TCP/IP Protocol	<b>a. True</b> b. false	VI	Easy	1
294	Call and Return pattern is commonly used architectural pattern	<b>a.True</b> b.False	VI	Easy	1
295	Structural view is represented by	<ul><li>a. Activity diagram</li><li>b. Class diagram</li><li>c. State diagram</li><li>d. Timing diagram</li></ul>	VI	Easy	2
296	Semantic models specify how to determine a systems overall properties from the properties of its parts	a.True b.False	VI	Hard	3
	Types of Architectural viewa are	a.Structural view b.Dynamic view c.Deployment view	VI	Hard	3
297		d.All			
200	Role of connector is	<ul><li>a. Communicate</li><li>b. Coordinate</li><li>c. Cooperate</li><li>d. All of the above</li></ul>	VI	Hard	3
298		u. All of the above			

299	Connectors is one of the architectural element	a.True		VI	Medium	2
		b.False	9			
	The software architect		Is an artifact of early analysis Help to identify	VI	Medium	1
		D.	risks			
		C.	Represents earliest design decision			
300		d.	All of the Above			

Prof G. M.Walunjkar

(Software Design and Modeling -Subject Incharge)