

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : BE/CSE	Year / Semester : III/ V	Format No.	NAC/TLP-07a.13
Subject Code : CS8592	Subject Name : Object Oriented Analysis & Design	Rev. No.	02
Unit No : 3	Unit Name : Dynamic and Implementation UML Diagrams	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

S. No.	Objective Questions (MCQ /True or False / Fill up with Choices)	BTL
1	What is the Interaction diagram? a) Interaction diagrams are the UML notations for dynamic modeling of collaborations b) Interaction diagrams are a central focus of engineering design c) All of the mentioned d) None of the mentioned	L2
2	What are the different interaction diagram notations does UML have? a) A sequence diagram b) A communication diagram c) An interaction overview diagram d) All of the mentioned	L2
3	What is a sequence diagram? a) A diagram that shows interacting individuals along the top of the diagram and messages passed among them arranged in temporal order down the page b) A diagram that shows messages superimposed on a diagram depicting collaborating individuals and the links among them c) A diagram that shows the change of an individual's state over time d) All of the mentioned	L4
4	Which of the following is true about Sequence frames? a) A sequence diagram has a frame consisting of a rectangle with a pentagon in its upper left-hand corner b) The pentagon is its name compartment; the interaction is represented inside the rectangle c) The string in the name compartment has the form sd interaction Identifier where interaction Identifier is either a simple name or an operation specification with the same format as in a class diagram d) All of the mentioned	L5
5	What is a lifeline? a) It is a frame consisting of a rectangle with a pentagon in its upper left-hand corner b) It is rectangle containing an identifier with a dashed line extending below the rectangle c) It is a name compartment; the interaction is represented inside the rectangle d) None of the mentioned	L1
6	What does a message mean? a) It Passes all communications from one object to another and are represented by message arrows in sequence diagrams b) The message goes from the sending object's lifeline to the receiving object's lifeline c) It is a rectangle containing an identifier with a dashed line extending below the rectangle d) All of the mentioned	L4
7	What are the three different types of message arrows? a) Synchronous, asynchronous, asynchronous with instance creation b) Self, Multiplied, instance generator c) Synchronous, Asynchronous, synchronous with instance creation d) None of the mentioned	L5

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8	<p>Which of these are true with respect to the message arrows?</p> <p>a) The synchronous message arrow is used when a sending individual continues execution after sending the message</p> <p>b) The asynchronous message arrow is used when a sending individual suspends execution after sending the message</p> <p>c) The dashed arrow is used either to show the return of control from a synchronous message or to create a new entity</p> <p>d) All of the mentioned</p>	L1
9	<p>When is the operation executing, suspended and active?</p> <p>a) An operation is executing when some process is actually running its code</p> <p>b) An operation is suspended when it sends a synchronous message and it is waiting for the message to return</p> <p>c) An operation is active when it is either executing or suspended</p> <p>d) All of the mentioned</p>	L2
10	<p>What is the interaction fragments?</p> <p>a) A fragment which is a rectangular frame with a pentagonal operation compartment in the upper left-hand corner</p> <p>b) A fragment which has a marked part of an interaction specification</p> <p>c) The regions resulting from these divisions will not hold the interaction fragment operations</p> <p>d) All of the mentioned</p>	L4
11	<p>Which of the following determines the state diagram?</p> <p>a) The UML notation for specifying finite automata is the state diagram</p> <p>b) In state diagrams, states are represented by rounded rectangles</p> <p>c) All of the mentioned</p> <p>d) None of the mentioned</p>	L5
12	<p>Which of the following statement is true?</p> <p>a) A transition is a change from one state to another</p> <p>b) Transitions may be spontaneous, but usually some event triggers them</p> <p>c) An event is a noteworthy occurrence at a particular time; events have no duration</p> <p>d) All of the mentioned</p>	L4
13	<p>Every finite automaton specification must contain which of the following?</p> <p>a) Descriptions of the automaton's states in a way that allows them to be distinguished, such as by naming each one;</p> <p>b) Descriptions of transitions indicating each transition source state, its target state, and the events that trigger it;</p> <p>c) Designation of an initial state, the starting place for state transitions</p> <p>d) All of the mentioned</p>	L5
14	<p>What does deterministic and non deterministic automation?</p> <p>a) A non-deterministic finite automaton is a finite automaton that has no spontaneous transitions and has a single transition that it must make in response to every event in each of its states</p> <p>b) A deterministic finite automaton is one with multiple transitions</p> <p>c) All of the mentioned</p>	L1

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	d) None of the mentioned	
15	<p>Which of the following is true for optional fragments?</p> <p>a) An optional fragment is a portion of an interaction that may be done</p> <p>b) The fragment operator name is opt</p> <p>c) Optional fragments have only a single operand, which must contain a guard</p> <p>d) All of the mentioned</p>	L5
16	<p>What is break fragment?</p> <p>a) An fragment which has one or more guarded operands whose guards are mutually exclusive—that is, at most one of them can be true at any time</p> <p>b) A fragment which has a single operand that is performed instead of the remainder of the enclosing fragment or diagram if the operand guard is true</p> <p>c) A fragment which has a single operand that may or may not have a guard</p> <p>d) None of the mentioned</p>	L1
17	<p>What are the heuristics which the sequencing diagram follows?</p> <p>a) Put pairs of lifelines that interact heavily next to one another</p> <p>b) Position lifelines to make message arrows as short as possible</p> <p>c) Position lifelines to make message arrows go from left to right</p> <p>d) All of the mentioned</p>	L5
18	<p>Which of the following represents the State Diagram?</p> <p>a) The finite automaton initial state is designated by a special initial pseudo-state depicted as a large black dot at the tail of an arrow pointing at the initial state</p> <p>b) A finite automaton may execute forever or it may halt in a final state</p> <p>c) Transitions are represented by solid arrows labeled with one or more transition strings that describe the circumstances under which the transition is triggered and the actions that may ensue</p> <p>d) All of the mentioned</p>	L4
19	<p>Which of the statements state the name compartment?</p> <p>a) The first compartment is the name compartment</p> <p>b) The first compartment is the name compartment, It contains the state name; State names are optional and may be path names</p> <p>c) The name compartment can never be omitted</p> <p>d) It contains the state name; State names are optional and may be path names</p>	L5
20	<p>Which of the following is true?</p> <p>a) A state symbol without a nested state compartment represents a complex state</p> <p>b) One with a nested state compartment represents a simple state</p> <p>c) All of the mentioned</p> <p>d) None of the mentioned</p>	L1
21	<p>Which of the following are composite states?</p> <p>a) A sequential composite state</p> <p>b) A concurrent composite state</p> <p>c) All of the mentioned</p> <p>d) None of the mentioned</p>	L5
22	<p>What is sequential and concurrent composite state means?</p> <p>a) A concurrent composite state contains a single state diagram composed of sub-states or</p>	L1

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		inner states and the transitions between them b) A sequential composite state contains two or more sequential state diagrams in regions separated by dashed lines called concurrent region boundary lines c) All of the mentioned d) None of the mentioned	
23		Sequential composite states simplify state models in two ways? a) They organize states into hierarchies b) They consolidate many transitions c) All of the mentioned d) None of the mentioned	L2
24		Which of the following statement is true? a) A logical architecture is the realization of product as code and data files residing and executing on computational resource b) A physical architecture is the configuration of product's major constituents c) All of the mentioned d) None of the mentioned	L3
25		Which among these are the common notations for deployment diagrams? a) Artifacts and nodes b) Stereotypes c) Components d) All of the mentioned	L5
26		Which of the following statement is true? a) A UML artifact is any physical representation of data used or produced during software development or software product operation b) A node is a computational resource c) All of the mentioned d) None of the mentioned	L2
27		Which of these are types of nodes used in the deployment diagram? a) Device b) Execution Environment c) Artifact d) Device & Execution Environment	L4
28		Which are the ways to represent nodes in a deployment diagram? a) Nodes instances are underlined identifiers of the form name:type b) All of the mentioned c) The type may be left off, indicating a named instance with an unspecified type d) The name may be left off, indicating an unnamed instance of the type	L5
29		What does a deployment diagram consists of? a) Computational resource b) Communication path between resource c) Artifacts that execute resource d) All of the mentioned	L2
30		Which of the following is incorrect in the deployment diagram? a) Communication connections between nodes are shown by communication paths	L3

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b) Communication paths are represented by dotted lines c) Artifacts are deployed inside nodes where they reside and execute d) None of the mentioned	
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