

**NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.**

<b>Course/Branch :</b> BE/CSE	<b>Year / Semester :</b> III/ V	Format No.	NAC/TLP-07a.13
<b>Subject Code :</b> CS8592	<b>Subject Name :</b> Object Oriented Analysis & Design	Rev. No.	02
<b>Unit No :</b> 4	<b>Unit Name :</b> Design Patterns	Date	30.09.2020

**OBJECTIVE TYPE QUESTION BANK**

<b>S. No.</b>	<b>Objective Questions (MCQ /True or False / Fill up with Choices )</b>	<b>BTL</b>
1	GRASP How to Choosing the Initial Domain Object? a) Initial domain object b) Root of the containment or aggregation c) hierarchy of domain object d) <b>All of the mentioned</b>	L2
2	What does a component diagram consists of? a) Components, their Relationship to the environment b) Packages and dependency c) Internal structure d) a, b e) <b>a, c</b>	L2
3	Which of these is true with respect to interfaces? a) <b>Interfaces in component diagram defines relationship between components and environment</b> b) Interfaces realized by a class or a component are required interfaces c) Interface on which a class or component depends are called provided interfaces d) All of the mentioned	L4
4	What is delegation connector? a) A delegation connector ties a component interface to one or more internal classes or components b) Delegation connectors are solid arrows stereotyped <> c) A delegation connector may also extend from an internal class to an external interface d) <b>All of the mentioned</b>	L5
5	Which of these are diagrammatic heuristics? a) Use notes, constraints, properties and stereotypes to add information to UML models b) Use Stereotypes to name dependencies c) Use packages to group elements in static models d) <b>All of the mentioned</b>	L1
6	Which among these are the common notations for deployment diagrams? a) <b>Artifacts and nodes</b> b) Stereotypes c) Components d) All of the mentioned	L4
7	Which of the following 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) <b>None of the mentioned</b>	L5
8	Which of the following is true? a) A UML artifact is any physical representation of data used or produced during software development or software product operation	L1

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		b) A node is a computational resource c) <b>All of the mentioned</b> d) None of the mentioned	
9		Which are the ways to represent nodes in a deployment diagram? a) Nodes instances are underlined identifiers of the form name:type b) The name may be left off, indicating an unnamed instance of the type c) The type may be left off, indicating a named instance with an unspecified type d) <b>All of the mentioned</b>	L2
10		What does a deployment diagram consists of? a) Computational resource b) Communication path between resource c) Artifacts that execute resource d) <b>All of the mentioned</b>	L4
11		Which of the following is incorrect in deployment diagram? a) Communication connections between nodes are shown by communication paths b) <b>Communication paths are represented by dotted lines</b> c) Artifacts are deployed inside nodes where they reside and execute d) None of the mentioned	L5
12		Which of these is correct? a) <b>Artifacts instances and types have same names</b> b) Artifact names and instances are underlines c) All of the mentioned d) None of the mentioned	L4
13		What is true about the artifacts? a) An Artifact is a physical entity b) An artifact has spatio temporal location c) <b>All of the mentioned</b> d) None of the mentioned	L5
14		Detailed design is further classified into which of the following? a) Mid-Level Design b) Low-Level Design c) <b>All of the mentioned</b> d) none of the mentioned	L1
15		What are the ways in which artifacts can be deployed? a) Artifact symbol can be placed within node symbol b) The artifact symbol can appear outside the node but be attached to it by dependency arrow from the artifact c) Artifact name can be listed inside the node symbol d) <b>All of the mentioned</b>	L5
16		Mid-level design is the activity of specifying software at the level of medium-sized components such as? a) Compilation units or classes b) Their Properties, Relationship c) Interaction of units	L1

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	d) <b>All of the mentioned</b>	
17	Which of these is correct? a) Low-level design is the activity of filling in small details at the lowest levels of abstraction b) Low-level design uses DeSCRIPTR specification c) Mid-level design uses DeSCRIPTR-PAID specification d) <b>All of the mentioned</b>	L5
18	Which of the following is carried out for the detailed design process? a) Both SRS and SAD are taken as input for the detailed design stage b) Design is finalized and then Design alternatives are evaluated c) Detailed design is the output for the process d) <b>All of the mentioned are correct and in sequence</b>	L4
19	A design document is a complete engineering design specification composed of? a) Software Architecture Document(SAD) b) Detailed Design Document(DDD) c) <b>All of the mentioned</b> d) None of the mentioned	L5
20	Which of the following statements are true? a) The SAD specifies a program's software architecture b) DDD specifies a program's detailed design c) There is a standard template for DDD d) <b>a, b</b> e) a, c	L1
21	The DDD template consists of which of the following? a) Mid level Design and Low level Design b) Mapping between models c) Detailed Design Rationale d) <b>All of the mentioned</b>	L5
22	Which of the following is correct? a) A concrete operation is an operation without a body, which cannot be called b) An abstract operation has a body, which can be called c) A concrete class is a class that cannot be instantiated d) All of the mentioned e) <b>None of the mentioned</b>	L1
23	Which of these statements states Generalization connector? a) A generalization connector is more like a link line between objects than an association line between classes b) The generalization connector always indicates that two particular classes participate in the generalization relation, as a link line shows that two objects participate in a particular relation c) Never place a name, role names, or multiplicities on a generalization connector d) <b>All of the mentioned</b>	L2
24	A provided interface can be shown in which of these ways? a) To attach the stick of an interface lollipop symbol to a class or component	L3

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	b) To connect a stereotyped class symbol representing the interface to the providing class or component using a special realization connector c) <b>Both the ways mentioned above</b> d) None of the mentioned	
25	A required interface can be shown in which of the following ways? a) To attach the stick of an interface socket symbol to a class or component b) To connect the class or component requiring the interface to an interface ball with a dependency arrow c) To connect the class or component to a stereotyped class symbol with a dependency arrow d) <b>All of the mentioned</b>	L5
26	UML provides which of these levels of visibility that can be applied to attributes and operations? a) Public b) Package c) Protected and Private d) <b>All of the mentioned</b> e) None of the mentioned	L2
27	Which of the following is correct? a) An attribute is an class variable when each object stores its own value for the attribute b) An attribute can also be a instance variable, which means that there is only one value stored for the attribute that is shared by all class instances c) An instance operation can be called using any object d) <b>A class operation is encapsulated in a class and can be called through the class</b>	L4
28	Which of the following determines state diagram? a) The UML notation for specifying finite automata is the state diagram b) In state diagrams, states are represented by rounded rectangles c) <b>All of the mentioned</b> d) None of the mentioned	L5
29	Which of the following are composite states? a) A sequential composite state b) A concurrent composite state c) <b>All of the mentioned</b> d) None of the mentioned	L2
30	What is a sequence diagram? a) <b>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> b) A diagram that shows messages super imposed 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	L3