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Solved By: Samavia Ayub

Question No: 1 - The first step in any OOA process model is to _____ ► build an object-relationship model ► define collaborations between objects ► **elicit customer requirements (A P R A C T I O N E R ' S A P P R O A C H Page603)** ► select a representation language

Question No: 2 - A necessary supplement to transform or transaction mapping needed to create a complete architectural design is _____. ► entity relationship diagrams ► the data dictionary ► **processing narratives for each module (A P R A C T I O N E R ' S A P P R O A C H Page422)** ► test cases for each module

Question No: 3 What types of errors are missed by black-box testing and can be uncovered by white-box testing? ► behavioral errors

► subtle logic errors **Click here for detail** ► performance errors ► input error

Question No: 4 Which test criteria should be applied in a phase of testing? ► functional validity ► interface integrity ► correctness ► **all of the given (A P R A C T I O N E R ' S A P P R O A C H Page522)**

Question No: 5 The hardest single part of building a software system is deciding precisely -----
- to build. ► what (Page 17) ► How ► When ► Why

Question No: 6 In sequence Diagrams objects are organized in a -----line ► horizontal (Page 106) ► vertical ► horizontal and vertical ► non of the above

Question No: 7 Every view is potentially Hierarchical in this regard which of the view are Hierarchical? ► Functionl View ► Development View ► *Concurrency view* ► **All of given (Page 125)**

Question No: 8 Like analysis models, many different kinds of -----models are developed ► Architectural (Page 126) ► System ► Design ► Logical

Question No: 9 Idea behind zero install architecture is to develop a system where no installation on the ----- is needed. ► Client side (Page 130) ► Server Side ► Client & Server Side ► Non of the all

Question No: 10 The construction is used to avoid ----- errors. ► compilation (Page 157) ► runtime ► design time ► non of them

Question No: 11 All comments should be written in----- ► English (Page 162) ► French ► C++ ► JAVA

Question No: 12 One of the Guidelines to avoid common mistakes is to never use ----- except for declaration ► , (Page 176) ► ; ► = ► ||

Question No: 13 The order in which bytes of one word are stored is ----- dependent ► Hardware (Page 181) ► Software ► language ► system

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Question No: 14 Verification and validation are the processes in which we check a product against its - -- and the ----- of the users who will be using it ▶ specifications, expectations (Page 192) ▶ statements, expectations ▶ specifications , arguments ▶ statements, arguments

Question No: 15 Two tests are considered to be equivalent if it is believed that: if one discovers a defect, the other probably will too, and if one does not discover a defect, -----, ▶ the other probably may ▶ non of them ▶ the other probably won't either (Page 199)

Question No: 16 It was lady named ----- who actually coin the term “bug” for the first time. ▶ Elisay Chistopher ▶ Admiral Grace Hopper (Page 213) ▶ Ana Nicholson ▶ Jane Hopper

Question No: 17 (Marks: 1) - Please choose one The first “bug” was actually a moth, which flew through an open window and into one of the Mark -----’s relays. ▶ II (Page 213) ▶ I ▶ III ▶ IV

Question No: 18 (Marks: 1) - Symptoms of logical errors are ----- ▶ code is misbehaving ▶ The program doesn't crash, but the flow of program takes odd branches through the code. ▶ Results are the opposite ▶ Output looks strange, ▶ all of the given (Page 218)

First hand accounts of the problem are always useful in Debugging process ▶ True (Page 225) ▶ False

Software architecture elements are further divided into categories which in total are ----- ▶ 2 ▶ 3 (Page 122) ▶ 4 ▶ 5

Establishing responsibilities for objects includes ▶ Generalization Relationships ▶ Specialization Relationships ▶ all of the above ▶ identifying Association relationships (Page 101)

Source files can have the extension ----- ▶ c++ . ▶ .C ▶ .cpp ▶ all of the given (Page 155)

Question No: 23 Be very careful when you use functions with side effects – functions that change the values of the ----- ▶ parameters (Page 176) ▶ variables ▶ constants ▶ None of given

Question No: 24 Which of the following is not a characteristic of software? ▶ **Software is tangible** ▶ A change to a piece of code may implicitly affect the functions of the rest of the code. ▶ Software is configurable. ▶ Software does not wear and tear.

Question No: 25 Which of the following is a fact finding method? ▶ Site visits ▶ **Prototyping** ▶ Study of similar systems ▶ All of given Seven common fact-finding methods (Sampling, Research, Observation, Questionnaires, Interviews, Prototyping, Joint Requirements Planning)

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Question No: 2 A decision table should be used _____ ► to document all conditional statements ► to guide the development of the project management plan ► only when building an expert system
► when a complex set of conditions and actions appears in a component **Click here for detail**

Question No: 3 Test cases should be designed long before testing begins. ► True (A PRACTITIONER'S APPROACH Page 467) ► False

Question No: 4 Which of the following are characteristics of testable software? ► observability ► simplicity ► stability ► all of the given (A PRACTITIONER'S APPROACH Page 469)

Question No: 5 Comparison testing is typically done to test two competing products as part of customer market analysis prior to product release. ► True
► False **Click here for detail**

Question No: 6 By collecting software metrics and making use of existing software reliability models it is possible to develop meaningful guidelines for determining when software testing is done.
► True **Click here for Detail** ► False

Question No: 7 one Configuration reviews are not needed if regression testing has been rigorously applied during software integration. ► True
► False **Click here for detail**

Question No: 8 A change becomes ----- because of close presence of data and functions ► Localized (Page 81) ► Private ► Global ► Accessible

Question No: 9 one Requirement engineering mainly deals with the ----- of the system ► definition phase (Page 16) ► development phase ► maintenance ► non of the above

Question No: 10 40-60% of all defects found in software projects can be traced back to poor -----
-- ► Requirements (Page 17) ► Design ► Coding ► Testing

Question No: 11 In the N-Tire Architecture the idea is to enhance scalability and ----- by distributing both the data and the application using multiple server machines. ► Performance (Page 131) ► Efficiency ► Usability ► non of the all

Question No: 12 MVC pattern was based on the ----- pattern. ► Observer (Page 140) ► Structural ► Behavioral ► Non of them

Question No: 13 Classes should be declared in individual header files with the file name matching the ----- name. ► class (Page 155) ► method ► object ► non of the all

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Question No: 14 - Unit testing is roughly equivalent to ----- testing for hardware in which each chip is tested thoroughly after manufacturing ▶ Circuit level ▶ **Chip Level (Page 207)** ▶ component level ▶ system level

Question No: 15 Software should be tested more like hardware, with Built-in self testing: such that each unit can be tested ----- ▶ freely ▶ **independently (Page 207)** ▶ dependently ▶ completely

Question No: 16- A system ----- is the period in which tremendous pressure is on developers end to fix the problem and make the system running again ▶ Uptime ▶ **Downtime (Page 214)** ▶ Currentime ▶ futuretimr

Question No: 17 Which one of the given below is not a symptom of memory overrun? ▶ Program crashes quite regularly after a given routine is called, that routine should be examined for a possible overrun condition. ▶ If the routine in question does not appear to have any such problem the most likely cause is that another routine, called in the prior sequence, has already trashed variables or memory blocks. ▶ Checking the trace log of the called routines leading up to one with the problem will often show up the error. ▶ **Compiler warnings. (Page 220)**

Question No: 18 Software architecture elements are further divided into categories which in total are ----- ▶ 2 ▶ 3 (Page 122) rep ▶ 4 ▶ 5

Question No: 19 Three tier architecture contains ----- layers ▶ Presentation ▶ Application ▶ Database ▶ **All of the above (Page 131)**

Question No: 20 1. Variables should be initialized where they are declared and they should be declared in the ----- scope possible. ▶ **Smallest (Page 158)** ▶ largest ▶ medium ▶ None of the given

Question No: 21----- are two important tools that can help in managing and mastering the complexity of a program. ▶ **abstraction and encapsulation (Page 170)** ▶ abstraction and Inheritance ▶ abstraction and Polymarhphism ▶ None of given

Question No: 22 Which of the following is a/are tool used in requirement analysis? ▶ Flow Graphs ▶ **Data Flow Diagrams (not sure)** ▶ Activity Networks ▶ Module Dependency Diagrams

Question No: 23 Consider the following comment. "The software which I bought won't run on windows and when it runs I can't use WORD at the same time". Which of the following do you think are violated by the newly bought software? ▶ dependability, interchangeability ▶ **platform independence, interoperability** ▶ reliability, dependency ▶ interoperability, reliability

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Question No: 24 is a diagramming technique used to identify the types of objects in the system and the static relationships that exist among them? ► Class Diagram ► Document flow diagrams ► Data flow diagrams ► **Flow charts**

Question No: 25 Which of the following interaction style best suit the design of an interface for visually impaired users? ► **direct manipulation (A PRACTITIONER 'S APPROACH Page 469)** ► direct manipulation ► natural language ► command line

Question No: 26 Which of the following testing involve purely black box testing? ► unit testing, beta testing ► acceptance testing, interface testing ► beta testing, acceptance testing ► **integration testing, interface testing**

Question No: 1 What are the three generic phases of software engineering? ► **definition, development, support (A PRACTITIONER 'S APPROACH Page 96)** ► what, how, where ► programming, debugging, maintenance ► analysis, design, testing

Question No: 2 - In the context of requirements analysis, partitioning results in the elaboration of data, function, or behavior. ► True **Click here for detail** ► False

Question No: 3 Quantitative methods for assessing the quality of proposed architectural designs are readily available. ► True ► False **Click here for detail**

Question No: 4 In refining the DFD during transaction mapping it is unnecessary to create a PSPEC since only the CSPEC is relevant to this type of architectural style. ► True ► False **click here for detail**

Question No: 5 In transaction mapping the first level factoring results in the _____ ► creation of a CFD ► derivation of the control hierarchy **Click here for detail** ► distribution of worker modules ► refinement of the module view

Question No: 6 Variable names must be in mixed case starting with upper case. ► True ► False (Page 150)

Question No: 7 Class variables should be declared public. This concept violates which of the following. ► Information hiding ► Encapsulation ► **Information hiding and Encapsulation (Page 158)** ► None of given

Question No: 8 Real-time applications add a new and potentially difficult element to the testing mix ► performance ► reliability ► security ► **time (Page 498)**

Question No: 9 Top-down integration testing has as it's major advantage(s) that ► low level modules never need testing ► major decision points are tested early **Click here for detail** ► no stubs need to be written ► none of the given

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Question No: 10 Configuration reviews are not needed if regression testing has been rigorously applied during software integration. ▶ True ▶ False Click here for detail

Question No: 11 isAuthorized, assess Performance,get item for UPC, get cashier for number, are the examples of ▶ Services (Page 102) ▶ Attributes ▶ Links ▶ Non of the above

Question No: 12 the *development* view describes the -----organization of the software in its development environment, ▶ Static (Page 122) ▶ Dynamic ▶ Still ▶ Static & Dynamic

----- being the first pure Object Oriented language in which observer pattern was used in implementing its Model View Controller ▶ Smalltalk (Page 140) ▶ PASCAL ▶ JAVA ▶ C++

Question No: 14 Hungarian Notation was first discussed by Charles Simonyi of----- ▶ Microsoft. (Page 149) ▶ Oracle ▶ Apple Macintosh ▶ Non of the all

Question No: 15 The language does not specify whether ----- is signed or unsigned. ▶ char (Page 181) ▶ integer ▶ double ▶ constant

Question No: 16 A number of invisible execution paths can exist in simple code in a language that allows ----- ▶ exceptions (Page 185) ▶ defects ▶ errors ▶ all of them

Question No: 17 Bugs Fixing is done by which of the teams in Software Development lifecycle? ▶ Development Team (Page 196) ▶ Testing Team ▶ Analysis & Design Team ▶ Process Team

Question No: 18 Software Bugs have multiple names, Which one of the below is not the name of Software Bugs ----- ▶ Bugs ▶ Defects ▶ Errors ▶ Mistakes (Page 213)

Question No: 19 Symptoms of logical errors are ----- ▶ code is misbehaving ▶ The program doesn't crash, but akes odd branches through the code. ▶ Results are the opposite ▶ Output looks strange, ▶ all of the given (Page 218)

First hand accounts of the problem are always useful in Debugging process ▶ True 225) ▶ False

In the debugging process a stack trace is a very useful tool. ▶ True (Page 226) ▶ False

Question No: 22 Establishing responsibilities for objects includes ▶ Generalization Relationships ▶ Specialization Relationships ▶ all of the above ▶ identifying Association relationships (Page 101)

Question No: 23 Stakeholders are different people who would be interested in the ----- ▶ Software (Page 24) ▶ System ▶ Product ▶ All of the given

Question No: 24 A ----- is a code that explains itself without the need of comments and extraneous documentation ▶ Self documenting code (Page 147) ▶ Self telling Code ▶ Self Documenting Design ▶ None of the given

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Question No: 26 Which of the following is an/are advantage(s) of object oriented analysis & design over structured system analysis & design? ▶ Ease of modeling real world events ▶ Reusability ▶ Maintainability ▶ All of given [Click here for detail](#)

The two main documents produced during this phase are Requirement Statement and Requirement Specification. They are also called Requirement Definition and ----- ▶ Functional Specification (Page 25) ▶ Mathematical specification ▶ System Specification ▶ None of the given

Question No: 2 A decision table should be used ▶ To document all conditional statements ▶ To guide the development of the project management plan ▶ Only when building an expert system ▶ when a complex set of conditions and actions appears in a component [Click here for detail](#)

Question No: 3 Which of the following is a/are tool used in requirement analysis? ▶ Flow Graphs ▶ Data Flow Diagrams (not sure) ▶ Activity Networks ▶ Module Dependency Diagrams

MVC stands for ----- ▶ Model View Controller (Page 140) ▶ Modern View Center ▶ Model View Center ▶ Modern View Controller

Question No: 5 A ----- is a code that explains itself without the need of comments and extraneous documentation ▶ Self documenting code (Page 147) ▶ Self telling Code ▶ Self Documenting Design ▶ Non of the above

Question No: 6 Bugs that won't "stand still" (almost random) are the ----- to deal with. ▶ least difficult ▶ most difficult (Page 226) ▶ very easy ▶ easy

Question No: 7 In refining the DFD during transaction mapping it is unnecessary to create a PSPEC since only the CSPEC is relevant to this type of architectural style. ▶ True ▶ False

Association is a type of relation ▶ Weak (OOP , 49) ▶ Stronger ▶ Normal ▶ None of above

Variable names must be in mixed case starting with upper case. ▶ True ▶ Page 150) False (

Bugs that won't (almost random) are the ----- to deal with. ▶ stand still (Page 226) ▶ Dynamic ▶ Static ▶ None of above

CRUD include following:- ▶ Creat ▶ Update ▶ Read ▶ All of above (Page 53)

Bugs Finding is done by which of the teams in Software Development lifecycle? ▶ Development Team ▶ Testing Team (Page 196) ▶ Analysis & Design Team ▶ Process Team

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Software Bugs have multiple names, which one of the below is not the name of Software Bugs -----
----- ► Bugs ► Defects ► Errors ► **Mistakes (Page 213)**

In the debugging process a stack trace is a very useful tool. ► True (Page 226) ► False

A ----- is a code that explains itself without the need of comments and extraneous documentation ► Self documenting code (Page 147) ► Self telling Code ► Self Documenting Design

Project ----- defines the concept and range of the proposed solution, and limitations identify certain capabilities that the product will not include ► Scope (Page 30) ► Agreement ► Plan ►

In the N-Tire Architecture the idea is to enhance scalability and ----- by distributing both the data and the application using multiple server machines. ► Performance (Page 131) ► Efficiency ► Usability ► non of the all

The cyclomatic complexity metric provides the designer with information regarding the number of
► Cycles in the program ► Errors in the program
► **Independent logic paths in the program Click here for detail** ► Statements in the program

Which of the followings is not a testing type? ► Subsystem testing ► Alpha testing ► Beta Testing
► **Gamma Testing (Page 198)**

Which of the items listed below is not one of the software engineering layers? ► Process
► **Manufacturing Click here for detail** ► Methods ► Tools

Which piece of code is self-documented? ► if (x==0) // this is the case when we are allocating a new number ► if (AllocFlag == 0) ► If (AllocFlag == NEW NUMBER) (Page 148) ► None of the given

UML (unified modeling language) analysis modeling focuses on the _____ . ► behavioral model and environment model. ► behavioral model and implementation model. ► user model and environmental model ► user model and structural model (A PRACTITIONER ' S A P P R O A C H Page 604)

What makes requirements elicitation difficult? ► bounding scope ► understanding user needs ► requirements volatility ► all of the above (A PRACTITIONER ' S A P P R O A C H Page 285)

In the architecture trade-off analysis method the architectural style should be described using the
► module view ► process view ► **all of the given (A PRACTITIONER ' S A P P R O A C H Page 403)**
► data flow view

In refining the DFD during transaction mapping it is unnecessary to create a PSPEC since only the CSPEC is relevant to this type of architectural style. ► True ► False click here for detail

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A decision table should be used _____ ▶ to document all conditional statements
▶ to guide the development of the project management plan ▶ only when building an expert system
▶ when a complex set of conditions and actions appears in a component **Click here for detail**

Variable names must be in mixed case starting with upper case. ▶ True ▶ **False (Page 150)**

Which of these are objectives for software testing? ▶ determine the productivity of programmers ▶
eliminate the need for future program maintenance ▶ eliminate every error prior to release ▶ **uncover
software errors (APRACTITIONER'S APPROACH Page 467)**

**Comparison testing is typically done to test two competing products as part of customer market
analysis prior to product release.** ▶ True
▶ False **Click here for detail**

**In software quality assurance work there is no difference between software verification and software
validation** ▶ True ▶ False **Click here for detail**

Top-down integration testing has as it's major advantage(s) that ▶ low level modules never need
testing ▶ major decision points are tested early ▶ no stubs need to be written **Click here for detail**

**Rooko mut jane do depicts one of risks associated with inadequate requirements gathering, the
name of that risk is -----** ▶ Ambiguous requirements (Page 20) ▶ Creeping
Requirements ▶ Minimal Specification ▶ Non of the above

Interaction Diagrams depict the ----- Behavior of the system ▶ Static ▶ Dynamic (Page 106)
▶ Active ▶ Non of the above

In Sequence Diagrams events are organized in a-----time line ▶ Vertical ▶ Horizontal (Page
106) ▶ Vertical & Horizontal ▶ Non of the above

**the development view describes the -----organization of the software in its development
environment,** ▶ Static (Page 122) ▶ Dynamic ▶ Still ▶ Static & Dynamic

Every view is potentially Hierarchical in this regard which of the view are Hierarchical ? ▶
Functionanl View ▶ Development View ▶ *Concurrency view* ▶ All of given

**object-oriented framework that is a set of cooperative classes that make up reusable ----- of a
system** ▶ Code ▶ Design (Page 138) ▶ Analysis ▶ non of the all

When planning for performance, one should always remember the ----- rule ▶ 80/20 (Page 177)
▶ 20/80 ▶ 80/22 ▶ 80/90

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In order to make a code more portable, Instead of using vendor specific language extensions, use ----- as much as possible ▶ STL (Page 179) ▶ ANSI ▶ ISO ▶ CMMI

Performance & Usability are examples of ----- requirements ▶ Business ▶ Functionl ▶ Non-Functionl (Page 39) ▶ User

Static analyzers are software tools for ----- processing. ▶ analysis text ▶ source text (Page 211) ▶ design text ▶ non of the given

Software Bugs have multiple names, Which one of the belw is not the name of Software Bugs ----- ▶ Bugs ▶ Defects ▶ Errors ▶ Mistakes (Page 213)

According to a survey, when a software application is in the maintenance phase, ----- of its lifecycle cost is attributed towards the defects which are found in the software application after installation ▶ 20 % (Page 214) ▶ 25 % ▶ 30% ▶ 35%

Bugs that won't "-----" (almost random) are the most difficult to deal with. ▶ stand still (Page 226) ▶ dynamic ▶ running ▶ stand tall

1. Variables should be initialized where they are declared and they should be declared in the ----- scope possible. ▶ Smallest (Page 158) ▶ largest ▶ medium ▶ None of the given

If you are initializing a variable at the time of declaration, do not declare another ----- in the same statement. ▶ variable (Page 176) ▶ object ▶ class ▶ None of given

During Requirement Engineering process which of the following is/are document(s) used for fact finding? ▶ Company's employee list ▶ Samples of the company databases ▶ The company's mission statement and plan ▶ All of given

Object-oriented domain analysis is concerned with the identification and specification of reusable capabilities within an application domain.1)True Click here for detail

Bugs that won't "stand still" (almost random) are the ----- to deal with.
 least difficult most difficult (Page 226) very easy easy

Holistic medicine, concerns itself with the state of the body as a whole, not the ----- that is currently attacking it. reason disease (Page 224) source non of the given

The first bug was actually a moth, which flew through an open window and into one of the Mark -- relays. II (Page 213) I III IV

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Static analyzers are software tools for ----- processing.

analysis text **source text (Page 211)** design text non of the given

The goal of testing is to expose ----- defects in a software system before it is put to use.

Latent (Page 193)

already present

current

runtime

