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TEAM HADI(VU LAHORE)

MID TERM PAST PAPER

We Deal All Kind of VU Project
(PHP, .NET, ANDROID, PYTHON)

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WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question No : 1 of 26

Marks: 1 (Budgeted Time 1 Min)

The state transition diagram _____

Answer (Please select your correct option)

- ☐ Depicts relationships between data objects
- ☐ Depicts functions that transform the data flow
- ☐ Indicates how data are transformed by the system
- ☒ Indicates system reactions to external events



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Question No : 2 of 26

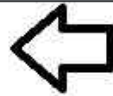
Marks: 1 (Budgeted Time 1 Min)

Domain model is _____ step in making an efficient system.

Answer (Please select your correct option)



Initial



Secondary



Last



Middle

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Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

CRUD operations do not include _____

Answer (Please select your correct option)

☐ Create

☐ Read

☐ Update

☒ Flow



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Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

In a, each program module is represented by a rectangular box.

Answer (Please select your correct option)



Use case diagram



Document flow diagram



Class diagram



Data flow diagram

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Question No : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

"isAuthorized", "assess Performance", are the examples of

Answer (Please select your correct option)

☐ Properties

☒ Services

☐ Attributes

☐ Links



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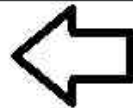
Question No : 6 of 26

Marks: 1 (Budgeted Time 1 Min)

What would be the most suitable architecture to develop a commercial web page to do business transactions over the internet?

Answer (Please select your correct option)

☒ Client server model



☐ Island model

☐ RAD model

☐ Repository model

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Question No : 7 of 26

Marks: 1 (Budgeted Time 1 Min)

UML (unified modeling language) analysis modeling focuses on the _____

Answer (Please select your correct option)

☐ Behavioral model and environment model

☐ Behavioral model and implementation model

☐ User model and environmental model

☒ User model and structural model

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Question No : 8 of 26

Marks: 1 (Budgeted Time 1 Min)

The vertical dotted lines in sequence diagram represent _____

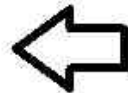
Answer (Please select your correct option)

☐

Creation of objects

☒

Life line of objects



☐

Structure of objects

☐

Services of objects

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Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

40-60% of all defects found in software projects can be traced back to poor _____

Answer (Please select your correct option)

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☒ Requirements



☐ Design

☐ Coding

☐ Testing

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Question No : 10 of 26

Marks: 1 (Budgeted Time 1 Min)

A SRS is said to be _____ if and only if, every requirement stated therein has only one interpretation.

Answer (Please select your correct option)

☐ Compact

☒ Unambiguous

☐ Consistant

☐ Detailed



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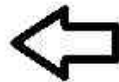
Question No : 11 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following is NOT among directly related construction activities of software development?

Answer (Please select your correct option)

☒ Management



☐ Testing

☐ Requirements Elicitation

☐ Design development

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Question No : 12 of 26

Marks: 1 (Budgeted Time 1 Min)

The _____ relationship is kind of a generalization-specialization relationship.

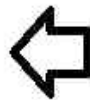
Answer (Please select your correct option)

☐ Composition

☐ Uses

☐ Association

☒ Extends



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Question No : 13 of 26

Marks: 1 (Budgeted Time 1 Min)

_____ relationship is concerned with classes not with the class instances.

Answer (Please select your correct option)

☐ Aggregation

☒ Inheritance

☐ Composition

☐ Association

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Question No : 14 of 26

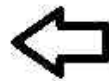
Marks: 1 (Budgeted Time 1 Min)

_____ activities are directly related to software development.

Answer (Please select your correct option)



Construction



Management



Quality assurance



Project planning

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Question No : 15 of 26

Marks: 1 (Budgeted Time 1 Min)

Two components of use-case model are actors and _____.

Answer (Please select your correct option)

☐

Functional requirements

☐

Processes

☒

Use-cases



☐

System boundary

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Question No : 16 of 26

Marks: 1 (Budgeted Time 1 Min)



_____ is not the part of Peter Coad methodology.

Answer (Please select your correct option)

Select actors



Select participants



Select places



Select actions



4. Select Transactions

5. Select Container Objects

6. Select Tangible things

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Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

Transactions are the _____ that must be remembered through time.

Answer (Please select your correct option)



Events

pg: 93



Actions



Triggers



Methods

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Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

The verbs in your problem domain usually indicate some of the _____ required of the associated object.

Answer (Please select your correct option)



Services



Objects



Collaborations



Actors

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Question No : 19 of 26

Marks: 1 (Budgeted Time 1 Min)

For purpose of behavior modeling, a state is any _____.

Answer (Please select your correct option)

- ☐ Consumer or producer of data
- ☐ Data object hierarchy
- ☒ Observable mode of behavior
- ☐ Well defined process

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Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

A complex System evolves from a _____.

Answer (Please select your correct option)

☐ Smaller system

☒ Simpler system

☐ Bigger system

☐ Medium system

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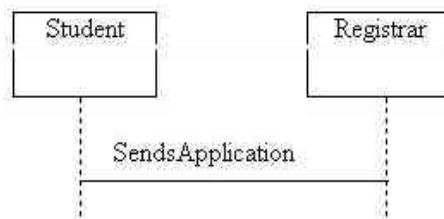
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Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

Identify the object(s) from the following sequence diagram:



Answer ([Please click here to Add Answer](#))



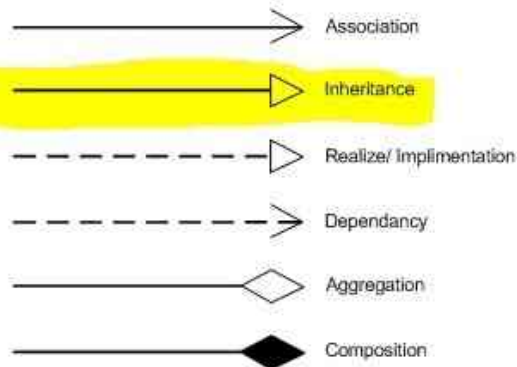
Answer: Object: Student and Application.

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As a software designer, you are assigned to prepare the Class diagram for the object Model. What is the notation for showing Inheritance relationship?

Answer



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Define following:-

- 1) Synchronous Messages
- 2) Asynchronous messages

Answer ([Please click here to Add Answer](#))



Asynchronous messages are "signals," denoted by a half arrow. They do not block the caller. Asynchronous messages typically perform the following actions:

- ❖ *Create a new thread*
- ❖ *Create a new object*

Communicate with a thread that is already running

Synchronous Messages:-

Synchronous messages are "call events" and are denoted by the full arrow. They represent nested flow of control which is typically implemented as an operation call. In case of a synchronous message, the caller waits for the called routine to complete its operation before moving forward.

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Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

Ali is considered as an object. What are the characteristics which decide Ali is an Object?

Answer (Please [click here to Add Answer](#))



*Answer: Ali could be a person, a student, or employee.
he will have characteristic which tell his class for which class of object it is.*

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Consider the following five code fragments.

1	2	3
<pre>class File { void OpenFile () { ... } void SearchIndex () { ... } void CloseFile () { ... } }</pre>	<pre>class AreaFun { double CircleArea() { ... } double RectangleArea() { ... } double TriangleArea() { ... } }</pre>	<pre>class MyClass { void OpenFile () { ... } void SearchIndex () { ... } void InitPrinter () { ... } void Print index { ... } }</pre>
4	5	
<pre>class POST { void CheckPower () { ... } void InitializeDisc () { ... } void LoadBootstrap () { ... } }</pre>	<pre>Class MakeSoup { void BoilWater () { ... } Void AddIngredients () { ... } void MixIngredients () { ... } void ServeSoup () { ... } }</pre>	

Which of the above code fragments show the weakest level of cohesion? Brief it with reason.

answer: 3

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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

Suppose you were analyzing a Requirement statement, How will you determine that an object belongs to a certain class?

Answer (Please [click here](#) to Add Answer)



analyzed on the basis of their characteristics , behaviour and states. things with same (all these) will be in same class. if we need many items of same (all these things) we will define a class for them.

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