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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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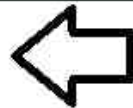
Question No : 6 of 26

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 _____

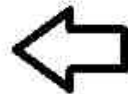
Answer (Please select your correct option)

☐

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)

☒ 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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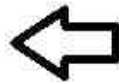
Question No : 11 of 26

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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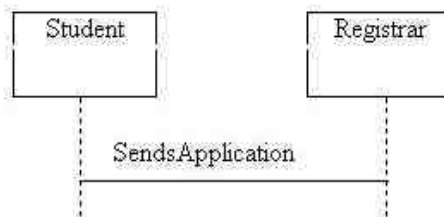
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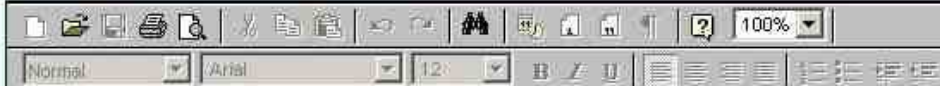
Question No : 21 of 26

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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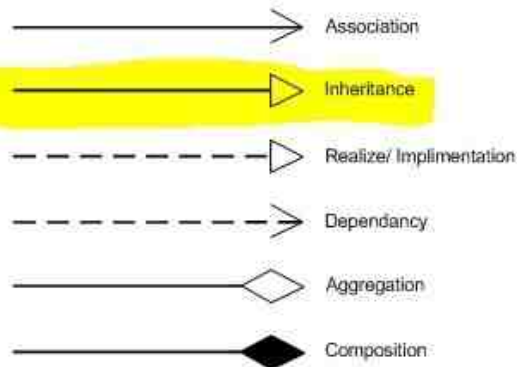
Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

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

Normal



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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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