Question Number: 135 Question Id: 640653450855 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 3

Question Label: Multiple Choice Question

Choose the correct term from the Column B for the description given in Column A. Note that one to-one mapping in the table is not necessary

Column A	Column B	
a.1 A customer can book a product on Amazon, but can collect the product from the showroom	b.1 Impulse buying	
a.2 You are waiting at the cash counter of a shopping mall. While waiting, you could see chocolates lying in the adjacent shelves. So you picked a couple of those.	b.2 Multi-channel retailing	
a.3 You picked up tea packets to your trolley while shopping at the shopping mall. You could see sugar and coffee packets also on the nearby shelves. You suddenly remember that sugar is out of stock at home. So you picked up a couple of sugar packets. So, Tea and Sugar are	b.3 Complementary product	
	b.4 Omni-channel retailing	
	b.5 Substitution product	
	b.6 Inventory- dependent demand	

Options:

6406531500518. **v** a.1: b.4, a.2:b.1, a.3:b.3

6406531500519. ***** a.1: b.1, a.2:b.2, a.3:b.3

6406531500520. ***** a.1: b.3, a.2:b.1, a.3:b.4

6406531500521. ** None of these

Section Id :	64065329297
Section Number :	6
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	25
Number of Questions to be attempted :	25
Section Marks :	100
Display Number Panel :	Yes
Group All Questions :	No
Enable Mark as Answered Mark for Review and	Yes
Clear Response :	res
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	64065364770
Question Shuffling Allowed :	No
Is Section Default? :	null
Question Number : 136 Question Id : 64065345088	31 Question Type : MCQ Is Question
Mandatory : No Calculator : None Response Time	: N.A Think Time : N.A Minimum Instruction
Time: 0	
Correct Marks : 0	
Question Label : Multiple Choice Question	
THIS IS QUESTION PAPER FOR THE SUBJECT "DEGR	EE LEVEL:SOFTWARE ENGINEERING"

ARE YOU SURE YOU HAVE TO WRITE EXAM FOR THIS SUBJECT? CROSS CHECK YOUR HALL TICKET TO CONFIRM THE SUBJECT TO BE WRITTEN.

(IF IT IS NOT THE CORRECT SUBJECT ,PLS CHECK THE SECTION AT THE <u>TOP</u> FOR THE SUBJECTS **REGISTERED BY YOU)**

Options:

6406531500566. **✓** Yes

6406531500567. ** No

Sub-Section Number: 2

Sub-Section Id: 64065364771

Question Shuffling Allowed : Yes

Is Section Default?: null

Question Number: 137 Question Id: 640653450882 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Choice Question

Match the following.

Role	Responsibility
1. Data scientists	A. Talk to users, create prototypes
2. Marketing Team	B. Help in resolving client issues
3. Designers	C. Conduct market research, identify audiences
4. Support Team	D. Analyse the data generated by different teams and users

Options:

6406531500568. ***** 1-C, 2-D, 3-B, 4-A

6406531500569. * 1-C, 2-D, 3-A, 4-B

6406531500570. ✓ 1-D, 2-C, 3-A, 4-B

6406531500571. * 1-D, 2-A, 3-B, 4-C

Question Number: 138 Question Id: 640653450884 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Match the following regarding deployment environments.

Deployment environment	Key activity
1. Development	A. Live environment where real users interact with the system
2. Testing	B. Provides the local environment of a developer
3. Staging	C. Integration and system testing are performed
4. Production	D. Exactly resembles the production environment to conduct various performance and stress testing

Options:

6406531500576. * 1-B, 2-C, 3-A, 4-D

6406531500577. ✓ 1-B, 2-C, 3-D, 4-A

6406531500578. * 1-A, 2-C, 3-D, 4-B

6406531500579. * 1-A, 2-C, 3-B, 4-D

Question Number: 139 Question Id: 640653450885 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Choice Question

Which software deployment strategies keep all the versions of the software alive and allow the users to choose a version?

Options:

6406531500580. * Blue/Green deployment

6406531500581. * Canary deployment

6406531500582. **✓** Versioned deployment

6406531500583. * None of these

Question Number: 140 Question Id: 640653450886 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Choice Question

The extent to which different modules are dependent upon each other is called

Options:

6406531500584. V Coupling

6406531500585. * Cohesion

6406531500586. Modularity

6406531500587. * Stability

Question Number: 141 Question Id: 640653450890 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Choice Question

Consider testing a module that takes annual income as input. If the income is < 0 then it prints "invalid input". If the input is valid and it is <= 2,00,000 then it prints "non-taxable income" else prints "taxable income".

Identify the number of equivalent classes for black box testing.

Options:

6406531500596. * 2

6406531500597. **3**

6406531500598. * 4

6406531500599. * 5

Question Number: 142 Question Id: 640653450891 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Choice Question

Consider a crypto trading system, that allows its users to buy or sell cryptocurrencies directly with others without the presence of a centralized exchange. The system is run by the computation

power and storage capabilities of all or some of the nodes present in the network.

Identify the type of software architecture used for the crypto trading system.

Options:

6406531500600. ***** Client-server system

6406531500601. * Pipe and filter

6406531500602. * Model view controller

6406531500603. ✓ Peer-to-peer architecture

Question Number: 143 Question Id: 640653450892 Question Type: MCQ Is Question

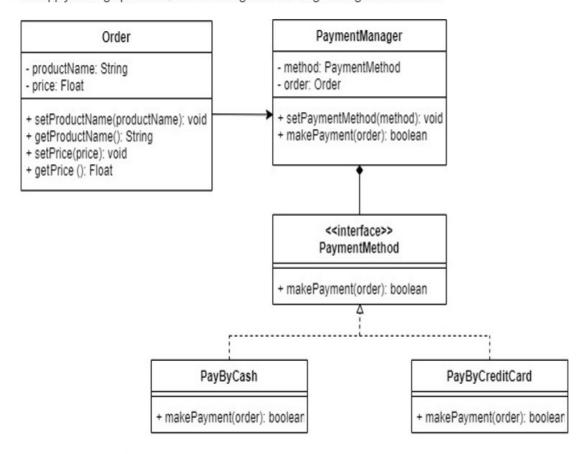
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Consider a scenario where we use a class *PaymentManager* to make payment for one or more objects of the class *Order*. Class *PaymentManager* can make the payment using either cash or a credit card. However, in future, more payment methods can be added without violating the open-close principle.

We apply a design pattern X, and the designed class diagram is given as follows:



Identify the design pattern referred to as X.

Options:

6406531500604. * Iterator design pattern

6406531500605. * Adapter design pattern

6406531500606. ✓ Strategy design pattern

6406531500607. ***** Facade design pattern

Question Number: 144 Question Id: 640653450893 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Consider that a company has developed a web application to sell various computer components.

Customers can select the components and place the order by making payment, after order confirmation the ordered components will be packed and delivered to the customer locations. The web application has the feature to track the order from start to delivery.

The design of the web application includes an interface <code>DeliveryProcessing</code> that is associated with <code>Product class(Product class objects are the computer components). The interface <code>DeliveryProcessing</code> has abstract methods: <code>placeOrder()</code>, <code>packageOrder()</code>, <code>deliverOrder()</code>, etc. The development team implements the interface <code>DeliveryProcessing</code> and defines the methods for processing the delivery. However, now the company also decided to sell software licenses, which can be delivered via email, and that do not require physical delivery. Therefore, some of the methods like <code>packageOrder()</code> of the <code>DeliveryProcessing</code> interface are not relevant for implementing the delivery process of the software licenses.</code>

Which of the SOLID principles is violated in the design?

Options:

6406531500608. Single responsibility principle

6406531500609. * Open-close principle

6406531500610. Liskov substitution principle

6406531500611. ✓ Interface segregation principle

6406531500612. * Dependency inversion principle

Question Number: 145 Question Id: 640653450894 Question Type: MCQ Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time:0

Correct Marks: 4

Question Label: Multiple Choice Question

Which of the following is true about the dump and diff debugging technique?

Options:

6406531500613. * Inserting print statements at the strategic locations and examining the output to identify where the error in the code

6406531500614. ✓ Using a tool to find differences between outputs and compare between the correct execution and incorrect execution

6406531500615. * Use the stepping function of the debugger to identify the error

6406531500616. We Use tools to get statistics about how often or how long various parts of the

Question Number: 146 Question Id: 640653450895 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Choice Question

In a given software, which of the following represents high cohesion and high coupling?

Options:

6406531500617. * The functions in each module perform various functions, and a lot of data is interchanged or shared between the modules.

6406531500618. ✓ The functions in each module perform a specific function, and a lot of data is interchanged or shared between the modules.

6406531500619. * The functions in each module are performing various functions, and no or very little data is interchanged or shared between the modules.

6406531500620. * The functions in each module are performing specific functions, and no or very little data is interchanged or shared between the modules.

Question Number: 147 Question Id: 640653450896 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Choice Question

In which type of cohesion, do all the functions of a module refer to or update the same data structure?

Options:

6406531500621. * Sequential cohesion

6406531500622. ✓ Communicational cohesion

6406531500623. * Procedural cohesion

6406531500624. * Coincidental cohesion

Question Number: 148 Question Id: 640653450897 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Choice Question

Consider the design of a music player application where each Playlist object consists of various Music

objects.

Identify the relationship between the Playlist class and the Music class.

Options:

6406531500625. * Association

6406531500626. Composition

6406531500627. * Inheritance

6406531500628. * Dependency

Question Number: 149 Question Id: 640653450898 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Choice Question

Consider that the effort estimated for a project is 120 person-month. How many developers are required to complete the project in one year?

Options:

6406531500629. * 12

6406531500630. 🗸 10

6406531500631. * 100

6406531500632. * 120

Question Number: 150 Question Id: 640653450899 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Choice Question

Which type of risk is caused by gold plating activities by the developers?

Options:

6406531500633. ** Project risk

6406531500634. ✓ Business risk

6406531500635. * Technical risk

6406531500636. * None of these

Question Number: 151 Question Id: 640653450900 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Choice Question

Consider the following risk table related to the risk assessment of a software project.

Risk	Probability	Impact
Personnel shortfall	50%	3
Insufficient domain knowledge	30%	3
Schedule slippage	60%	2
Shortcomings in external components	20%	4

Identify the option that orders the risk factors in descending order of the associated risk.

Options:

6406531500637. Shortcomings in external components, Personnel shortfall, Insufficient domain knowledge, Schedule slippage

6406531500638. Schedule slippage, Personnel shortfall, Insufficient domain knowledge, Shortcomings in external components

6406531500639. Shortcomings in external components, Insufficient domain knowledge, Schedule slippage, Personnel shortfall

6406531500640. ✓ Personnel shortfall, Schedule slippage, Insufficient domain knowledge, Shortcomings in external components

Question Number: 152 Question Id: 640653450901 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Choice Question

Match the following terms with their appropriate descriptions from the agile perspective.

Terms	Descriptions
1. Sprint	A. Daily meeting which involves - the development team, scrum owner, product manager
2. Product Backlog	B. The team member who ensures all activities are being done well
3. Standup	C. A short, time-boxed period when a scrum team works to complete a set amount of work
4. Scrum Master	D. Prioritized list of work for the development team that is derived from user stories and requirements

Options:

6406531500641. * 1-B, 2-A, 3-D, 4-C

6406531500642. * 1-B, 2-C, 3-D, 4-A

6406531500643. * 1-C, 2-B, 3-A, 4-D

6406531500644. 1-C, 2-D, 3-A, 4-B

Question Number: 153 Question Id: 640653450902 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

A company website is supposed to allow its users to submit applications for various jobs posted on the site. Each application consists of several forms that users must complete in a step-by-step manner. In each form there are several buttons, including the Back button, by clicking which the user can move to the previous form to change any entry they have already submitted, the cancel button to delete all the entries in the current form at a time, close button to be clicked to cancel the entire application when users feel they do not want to continue with the application.

Which of the following heuristics of UI evaluation is fulfilled in this case?

Options:

6406531500645. * Recognition over recall

6406531500646. * Consistency

6406531500647. * Clean and functional design

6406531500648. Freedom

Question Number: 154 Question Id: 640653450903 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Choice Question

Mr Dubey has installed an application in his smartphone that can be used as a remote control for his television. The app displays five buttons, four labelled A, B, C, and D, and one labelled Manual. The buttons A, B, C, and D have different functionalities. However, Mr Dubey finds them difficult to remember, and he has to click on the Manual button to get the manual and understand how those buttons work. It frustrates Mr Dubey and discourages him from using the application.

Which of the following usability goals is not achieved by the application?

Options:

6406531500649. * Effectiveness

6406531500650. * Safety

6406531500651. ✓ Memorability

6406531500652. * Safe to use

Question Number: 155 Question Id: 640653450904 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Choice Question

Which of the following requirement-gathering techniques is best for highlighting areas of conflict while also assisting in the development of consensus?

Options:

6406531500653. * Questionnaires

6406531500654. * Interviews

6406531500655. **✓** Focus groups and workshops

6406531500656. * Naturalistic observations

Question Number: 156 Question Id: 640653450905 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Choice Question

Consider a web application that allows its users to purchase medicines online. The user story for searching for medicine is given below.

```
Peature: Search for medicines

As a customer,

I want to search for a medicine by its generic name,

So that I get a list of brand names along with the price for the given generic name.

The website must show the list in a reasonable amount of time.
```

The user story is rectified as follows:

```
Peature: Search for medicines

As a customer,

I want to search for a medicine by its generic name,

So that I get a list of brand names along with the price for the given generic name.

The website must show the list within a second.
```

Which of the SMART characteristics is achieved by rectification?

Options:

6406531500657. **Specific**6406531500658. **✓** Measurable
6406531500659. **Specific**6406531500660. **Specific**Timeboxed

Question Number: 157 Question Id: 640653450906 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time:0

Correct Marks: 4

Question Label: Multiple Choice Question

In which of the software development models is it more important to respond to changes than to stick to a plan?

Options:

6406531500661. Waterfall

6406531500662. * Prototype

6406531500663. * Spiral

6406531500664. Agile

Sub-Section Number: 3

Sub-Section Id: 64065364772

Question Shuffling Allowed : Yes

Is Section Default?: null

Question Number: 158 Question Id: 640653450883 Question Type: MSQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4 Selectable Option: 0

Question Label: Multiple Select Question

What are the primary applications of knowledge sharing tools in software development?

Options:

6406531500572. ✓ The tools can be used for sharing documents and archiving decisions.

6406531500573. * The tools enable all members of the team to get a big picture of the project along with a detailed view of its progress.

6406531500574. ✓ The tools can be used to apply the knowledge gained in one project to another project.

6406531500575. * The tools mainly include IDEs that help the developers to be more productive.

Question Number: 159 Question Id: 640653450907 Question Type: MSQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4 Selectable Option: 0

Question Label: Multiple Select Question

You want to add a feature to the git repository TaskSchedular for which you need to add two files task.java and main.java in the repository. For this task, you are planning on doing your first commit to this repository. Select all commands which are required to do your first commit.

Options:

```
6406531500665. ✓ git commit
6406531500666. ✓ git add
6406531500667. ※ git restore
6406531500668. ※ git init
```

Sub-Section Number: 4

Sub-Section Id: 64065364773

Question Shuffling Allowed: No

Is Section Default?: null

Question Id: 640653450887 Question Type: COMPREHENSION Sub Question Shuffling Allowed: No Group Comprehension Questions: No Question Pattern Type: NonMatrix Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Question Numbers: (160 to 161)

Question Label : Comprehension

Consider the following code base in Python, and answer the given subquestions.

```
1 def dayStatus(day):
2    if day <= 0 or day > 7:
3        print("Invalid day")
4    else:
5        if day < 6:
6            print("weekday")
7        else
8        print("weekend")</pre>
```

Sub questions

Question Number: 160 Question Id: 640653450888 Question Type: MSQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4 Selectable Option: 0

Question Label: Multiple Select Question

Identify the sets of valid test cases for branch coverage.

Options:

```
6406531500588. * {day = 0, day = 5}
6406531500589. * {day = -1, day = 5, day = 8}
6406531500590. * {day = 0, day = 5, day = 7}
6406531500591. * {day = 5, day = 6, day = 9}
```

Question Number: 161 Question Id: 640653450889 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Choice Question

Identify the sets of valid test cases for multiple condition coverage.

Options:

Speech Tech

Section Id: 64065329298

Section Number: 7

Section type: Online

Mandatory or Optional: Mandatory

Number of Questions: 1

Number of Questions to be attempted: 1

Section Marks: 40