

Interfaces

Select one or more:

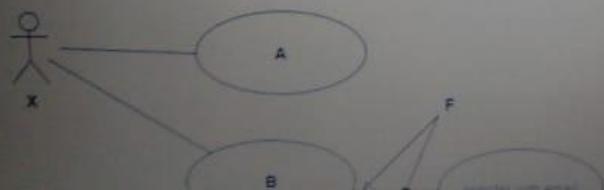
- a. can be CRC cards
- b. None of the mentioned
- c. are facilitators of communication between systems
- d. can be television remote controllers
- e. can be classes which do not implement the functions

 NetExam
Sri Lanka Institute of Information Technology

Read the description given below to answer the questions.

"BeReady" is a private travel agency in Sri Lanka that provides information for clients about travel and tourism. They are designing an automated web-based system.

Guest can view the available tour packages. Any customer who wishes to proceed needs to register with the system by Facebook or Email registering. Only registered customers can request a quotation. For that customer must select a package from the given packages. Also needs to select the hotel and fill up the airline information. Later customer can view the requested quotation.



```
graph LR; User(( )) --> A([A]); User --> B([B]); A --- B; A --- F([F]);
```

 Sri Lanka Institute of Information Technology

Facebook is known as the largest COSS code contributor. What does **COSS** stand for?

Select one:

- a. Commercial Open Source Software
- b. Computer Off Shelf Software
- c. Commercial Off Shelf Software
- d. Commercial On Shelf Software
- e. Customized Off Shelf Software



[Next page](#)

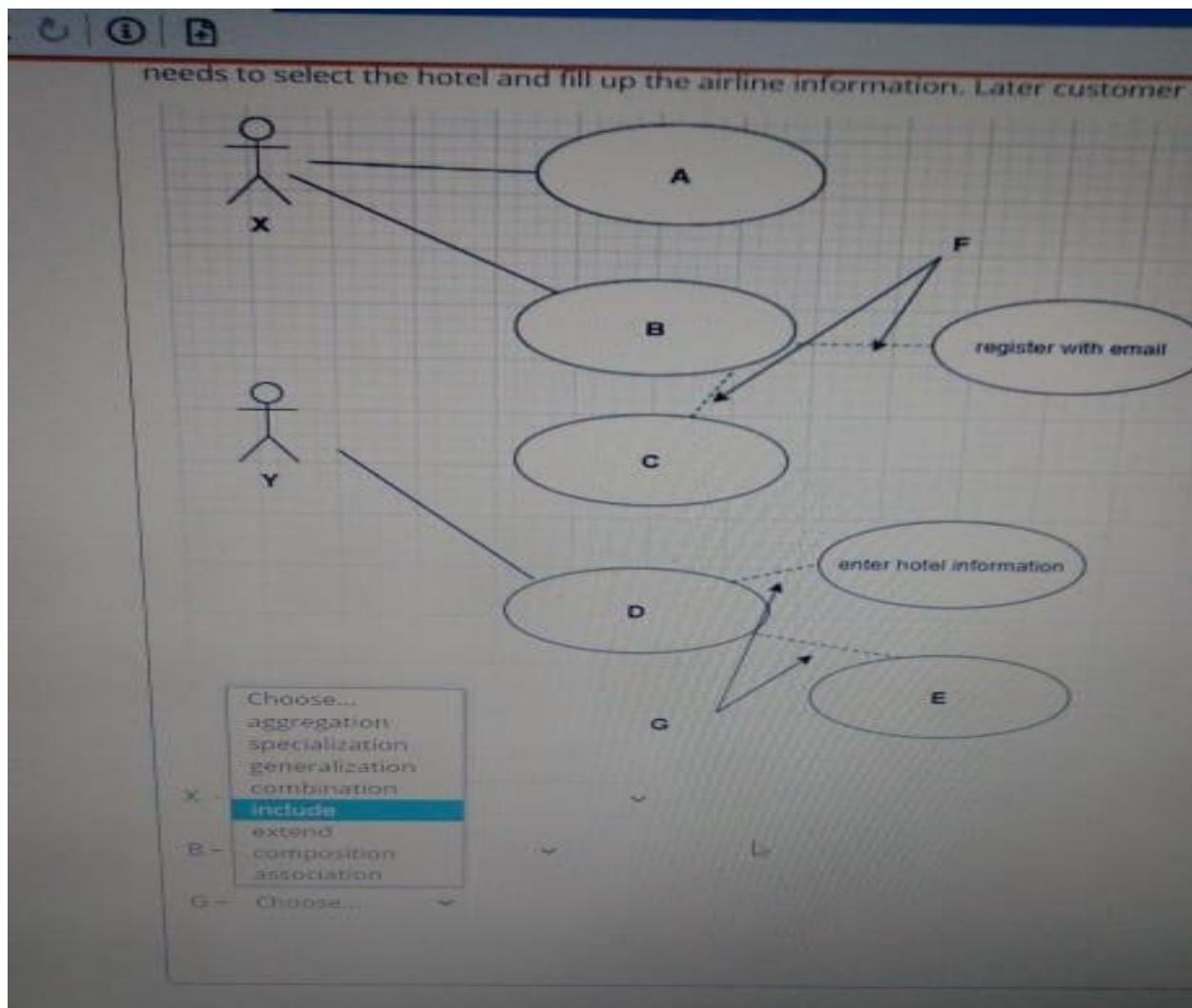
NetExam
Sri Lanka Institute of Information Technology

Admins of a Facebook group want to develop an online polling system to create polls, view results and analyse results. Initially your team did a feasibility study to find out whether you can go with this project and you decided the project is feasible and realistic. As the next step your team decided to gather requirements for project by interviewing and observing, this phase is known as [] . After gathering all requirements then team wrote down the requirements in a very detailed manner using graphical notations and using structured languages. Writing down requirements in well detailed manner is known as [].

Note: Drag and drop answers

requirement writing requirement discovery requirement explore requirement prototyping requirement validation
 requirement specification

Next page





Read the following scenarios and select correct Engineering type from the drop down lists.

1. Cam Bank has been using AS400 as its system since 1980. The bank is planning to expand the customer base and facilitate more functions. The methodology they could use is . They got to know that they could use a tool to do most of the tasks provided that they know the used .

2. Sam Bank has planned to develop an online banking platform to accommodate most of the customer requirements. This development will be carried out using . Further Sam Bank wants to interface with Cam Bank to provide more facilities to the customers. This can be achieved by understanding the through .

```
graph TD; A[Sign off proposal] --> B{ }; B --> C(( )); C --> D[Collect feedback]; D --> E[ ];
```

Select one or more:

a. Client and BA
 b. BA and Coordinator

d. Client only
 e. BA, PM and Coordinator

NetExam
Sri Lanka Institute of Information Technology

Question 23
Not yet answered
Marked out of 2.00
Flag question

Fill in the table using Cons and pros of open source software.

Pros	Cons
Free to try before you buy	Increase Business Risk
Free Support	Avoids vendor Lock-In
Fewer bugs and faster fixes	Minimal Support Leverage
Reduced Competitive Advantage	

Finish Time left FINAL MULTIPLE 1 2 9 10 17 18

NetExam
Sri Lanka Institute of Information Technology

Question 24
Not yet answered
Marked out of 1.00
Flag question

You are given the following activity diagram. Write down two action sequences that are possible during one execution of this diagram? (e.g. ABC)

```
graph LR; Start(( )) --> A[A]; A --> B(( )); A --> C(( )); B --> End1((( )));
    C --> End2((( )));
    style Start fill:none,stroke:none;
    style End1 fill:none,stroke:none;
    style End2 fill:none,stroke:none;
```

Answer 01 = A->B

Answer 02 = A->C

Choose the correct answers.

Your company needs to develop a software application for a chemical plant. The users are non-technical people and do not have much computational skills as well. Your team has decided to use the Spiral model for this. But if your team members do not have any experience on that kind of project, it is better to use the V-shaped with prototype model.

Spiral Incremental V-shaped Prototype
 Iterative Agile Spiral with prototype V-shaped with prototype

[Next page](#)

Quiz na
Finish attempt
Time left 0:27:
FINAL EXAM
MULTIPLE CH
STRUCTURE
21 22
28 29
35 36

Below is a use case diagram clipping for a student registration system for a webinar session.

Guest can execute parent use case . while the User can execute parent use case . "check validity" is a/an mandatory use case of "Register with email".

22
answered
out of
question

"Flemingo" is a well-known company for developing student assistive management systems in the US. "Fancy" is one of the recognized projects in "Flemingo" which practices modern software methodologies in a very successful way. "Fancy" includes several sprints to gain milestones of the project. Analyze first sprint details below and answer subsequent questions.

Days	0	1	2	3	4	5	6	7	8	9	10
Actual	190	180	160	140	113	94	94	94	58	25	0
Effort											

Ideal Sprint the velocity of the first sprint was and highest actual sprint burndown velocity reported on the day which was

Next page

Moodle

← → × C | ⓘ | 🗑

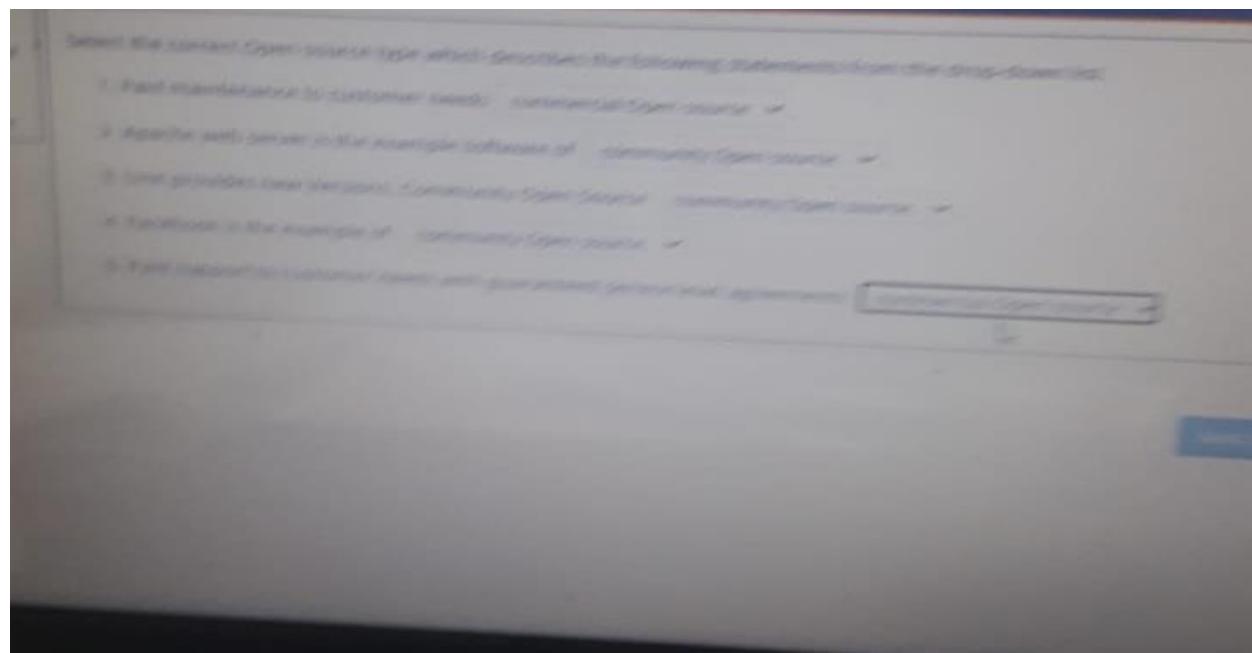
Question 48
Not yet answered
Marked out of
2.00
Flag question

"Flemingo" is a well-known company for developing student assistive management systems in the US. "Fancy" is one of the recognized projects in "Flemingo" which practices modern software methodologies in a very successful way. "Fancy" includes several sprints to gain milestones of the project. Analyze first sprint details below and answer subsequent questions.

Days	0	1	2	3	4	5	6	7	8	9	10
Actual	190	180	160	140	113	94	94	94	58	25	0
Effort											

Ideal Sprint the velocity of the first sprint was and highest actual sprint burndown velocity reported on the day which was

Next page



 Sri Lanka Institute of Information Technology

An automated air-conditioner is programmed to turn its heating unit on when the temperature falls below 15 Degrees and to turn its refrigeration unit on when the temperature exceeds 30 Degrees. The air-conditioner is designed to operate at temperatures between -10 Degrees and +45 Degrees.

Given the above specification, which of the following sets of values shows the complete set of equivalence partition test values excluding the boundaries in ascending order?

-
-
-
-
-

→

45	42	-11	15	-15	-10	19	-9	29	55	0	31
----	----	-----	----	-----	-----	----	----	----	----	---	----

[Next page](#)

← → × ⌂ ⓘ ⌂

 NetExam
Sri Lanka Institute of Information Technology

Question 24
Not yet answered.
Marked out of 2.00
[Flag question](#)

Read the following scenarios and select correct Engineering type from the drop down lists.

1. Cam Bank has been using AS400 as its system since 1980. The bank is planning to expand the customer base and facilitate more functions. The methodology they could use is Choose... . They got to know that they could use a tool to do most of the tasks provided that they know the used Choose... .

2. Sam Bank has planned to develop an online banking platform to accommodate most of the customer requirements. This development will be carried out using Choose... . Further Sam Bank wants to interface with Cam Bank to provide more facilities to the customers. This can be achieved by understanding the Choose... through Choose... .

[Previous page](#) [Next page](#)

⟳ ⓘ ⌂

Sri Lankan airlines wants to impose a baggage handling policy. According to that policy, the following charges are introduced for all baggage per individual customer (weights are rounded up to the nearest 0.1Kg)

a. The first 2Kg will be free of charge.
b. The next 10 Kg will be for a flat charge of \$10.
c. An additional 15Kg will be charged a total charge of \$17.
d. Luggage over this amount will be charged at \$5 per Kg, up to a maximum of 150Kg per person.
e. No passenger may take more than 150Kg with them.

1. What is the minimum number of boundary values needed to test this system?

2. What is the minimum number of equivalence class values needed to test this system?

NetExam
Sri Lanka Institute of Information Technology

All the software development process activities are important for an acceptable high quality final product. When it comes to the implementation there is an interleaved activity with implementation which affects implementation than any other software development process activities. What is that activity?

Select one:

- a. Feasibility study
- b. Maintenance
- c. Requirements gathering
- d. Testing
- e. Design

Marked out of 2.00

Flag question

The correct action sequence for the diagram is . If you select the action sequence X->Y->W, it is not correct because .

Note: Drag and drop the answer

Powered
of
question

Imotions is a well-known software development company which practices agile methodologies in their development. "Imotions" was asked to develop a system to the government to analyze the patient records of the COVID-19. According to the experts and development team, they decided to have 9-man hours per day to implement the system and "Imotions" planned to complete the system within 12 days. Therefore, task completing can be mentioned following way. Which statements are TRUE about the project?

Day 01-	Remaining 102
Day 02	Remaining 98
Day 03	Remaining 90
Day 04	Remaining 83
Day 05	Remaining 75
Day 06	Remaining 70
Day 07	Remaining 70
Day 08	Remaining 70
Day 09	Remaining 50
Day 10	Remaining 32
Day 11	Remaining 17
Day 12	Remaining 07
Day 13	0

Select one or more:

- Highest burn down velocity is reported on 09th day and lowest burn down velocity is reported on 07th and 08th days.
- On 06th day actual velocity is equal to ideal velocity and sixth, seventh days are spent without any progress.
- The total effort of the project is 118 man hours and performance of the project in 06th, 07th and 8th days are considerable.
- The same burndown velocity is reported on 3rd and 5th days and it was 09 man hours per day.
- As the performance of the project is low in first half of the project they couldn't complete the project before the deadline.

Quiz navigation

Finish attempt...
Time left 1:56:58
FINAL EXAMINATION
1
MULTIPLE CHOICE QUESTIONS
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
17 18 19 20
STRUCTURED QUESTIONS
21 22 23 24 25 26 27 28
29 30 31 32 33 34 35 36
37 38 39 40 41 42 43 44
45 46 47 48 49 50
51

Sri Lanka Institute of Information Technology

Question 44
Not yet answered
Marked out of 2.00
Flag question

The following question is based on Scrum. Read the given description carefully and select the suitable words and drag and drop to the blank given below.

David is a team member of Ruby project at Pearson. They conduct and practice several modern software development methodologies. So, David participated in one meeting. In that meeting, the team discussed the product backlog and the sprint backlog. They modified the product backlog accordingly. Also, they re-prioritized the tasks according to the discussion. Some tasks are changed, and new ones are added according to current trends by the team. They spent almost four hour-time box.

What is the meeting?

Who are the participants?

Sprint Planning	Competitors
Product Owner	Product Owner and SCRUM team
Management	Product Owner and SCRUM team
SCRUM team and the Client	SCRUM Master
SCRUM Team	Daily SCRUM
Product Owner and the Client	Product Owner, Scrum team and client

Module

Sri Lanka Institute of Information Technology

Question 31
Not yet answered
Marked out of 2.00
Flag question

The following question is based on the Scrum Roles and their assigned responsibilities. Read the description carefully and drag and drop the correct answers.

As a product manager, the Scrum Master helps the team resolve issues and make improvements to its use of Scrum. He/she is Responsible for protecting the team from outside interferences and takes a leadership role in removing impediments that inhibit team efficiency. The Scrum Master has no authority to exert control over the team, so this role is not the same as the traditional role of the project manager. The Scrum Master functions as a leader, not a manager.

development manager product manager efficiency productivity
 changing Facilitator removing interferences
 organizer liable restrictions Responsible

Next page

Quiz navigation

Finish attempt ...
Time left 0:14:40
FINAL EXAMINATION

MULTIPLE CHOICE QUESTIONS

1	2	3	4	5		
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	
26	27	28	29	30	31	32
33	34	35	36	37	38	39
40	41	42	43	44	45	46

STRUCTURED QUESTIONS

21	22	23	24	25		
26	27	28	29	30	31	32
33	34	35	36	37	38	39
40	41	42	43	44	45	46

NetExam

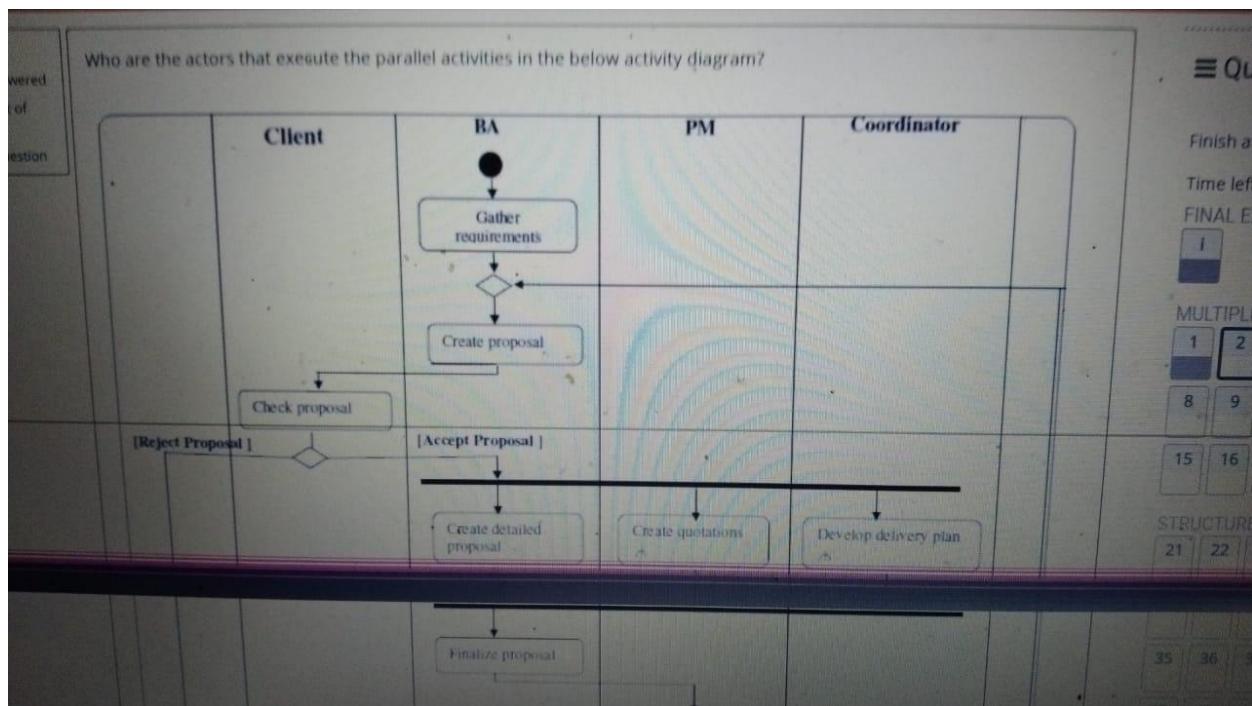
Sri Lanka Institute of Information Technology

Question 50
Not yet answered
Marked out of 2.00
Flag question

Learning management system is an integral part of eLearning design and facilitate unlimited access to eLearning materials, can track learners progress and can organize content in one location. Currently your company has been working on the project for 4 year and should be completed by November 2021. The system should be available on all platforms and 24x7 throughout the year. Allocation for the project for 2 years is 50 million rupees. How many constraints are there in this scenario?

Note: Enter only the numerical value

Answer:



Question 49
Not yet answered
Marked out of 2.00
Flag question

Sri Lanka Institute of Information Technology

Read the following scenario and select the choices from the given below

"Book for You" is a ticket reservation system introduced by the Sri Lankan government for the citizens and tourists to book the highway and railway tickets at any time in a day. The objective of this project is to increase the user's convenience. By calling several tenders, the transport minister committee has selected your company. After several meetings with the respective personals, the Scrum Master has come up with a list of PBIs (Product Backlog Items).

Select 4 user stories for the first Sprint Backlog.

Note: At the first sprint it plans to launch the web site with the most required features.

1. As a user, I want to check the available seats before my booking so that, I can book the tickets according to my preference Choose... ▾
2. As a minister, I want to check all the bookings customers made and their preferences so that, I can take necessary decisions to support their requests Choose... ▾
3. As a user, I want to check the train ticket time tables so that, I can manage my bookings Choose... ▾
4. As a user, I want to get details about the nearest scenery locations so that, I can enjoy my tour Choose... ▾
5. As a bus driver, I want the system to send the notifications about user's booking so that, I can confirm the reservations Choose... ▾
6. As a bus driver, I want to see the updated booking in a dashboard so that I can manage user's inquiries. Choose... ▾

Quiz navigation

Finish attempt ...
Time left 0:09:29
FINAL EXAMINATION

1	2	3	4
8	9	10	11
15	16	17	18
21	22	23	24
28	29	30	31
35	36	37	38
42	43	44	45

7
swered
ut of
question

"SriBatik" is an innovative designing application for Batik industry which is to uplift self-employed people. As a government-related ICT group, you have been assigned to analyze the first phase's efficiency of development of "SriBatik" through burndown velocity. To proceed with, some of the data has been collected and given to you for reference.

Days	0	1	2	3	4	5	6	7	8	9	10
Actual	142	120.3	112.5	95.4	95.4	80.1	70.3	35.5	22.4	12.2	0
remaining											
Effort											

1. By end of 5th day, remaining workload should be man-hours and during On the 5th day, actual burndown

velocity was man-hours per day

2. The lowest actual burn-down velocity was reported on day Choose... and it was man-hours per day

[Next page](#)

16
swered
ut of
question

Sri Lankan airlines wants to impose a baggage handling policy. According to that policy, the following charges are introduced for all baggage per individual customer

(weights are rounded up to the nearest 0.1Kg)

- a. The first 2Kg will be free of charge.
- b. The next 10 Kg will be for a flat charge of \$10.
- c. An additional 15Kg will be charged a total charge of \$17.
- d. Luggage over this amount will be charged at \$5 per Kg, up to a maximum of 150Kg per person.
- e. No passenger may take more than 150Kg with them.

1. What is the minimum number of boundary values needed to test this system?

2. What is the minimum number of equivalence class values needed to test this system?

[Next page](#)



Question 1

Not yet answered

Marked out of
1.00

Flag question

When is a sprint over in SCRUM?

Select one:

- a. None of the mentioned.
- b. When the Product Owner suggests
- c. When the final testing is completed
- d. When all the Sprint Backlog Items are completed
- e. When the time box expires

Next page

Question 2

Not yet answered

Marked out of
1.00

Flag question

White-Box Testing is also known as _____.

Select one or more:

- a. Functional Testing
- b. Data driven testing
- c. Clear Box Testing
- d. Code-based Testing
- e. Structural Testing

Which of the given statement is **true** about a **Decision node** in an activity diagram?

Select one:

- a. Represents multiple alternative flows from which one flow is chosen at a time.
- b. Numbers of branches are unlimited and not mandatory to have guard conditions on all branches.
- c. Numbers of branches are limited to two and should have a guard condition on all the branches.
- d. The flow of control flows down multiple paths where the branch conditions are true.
- e. None of the mentioned is true

Sri Lanka Institute of Information Technology

on 4
answered
out of
ag question

The Glucometer is a medical equipment, used to measure the blood sugar in a person. When checking the fasting blood sugar, the following conditions are checked. If the result is

- i. between 80 and 100, status is normal,
- ii. greater than 100 and less than 125, status is impaired Glucose,
- iii. above or equal to 125, status is diabetics.

Which of the following are **TRUE** regarding the above scenario?

Select one or more:

- a. Values 80 and 100 are test data from Equivalent Class Partitioning
- b. It should not be tested for negative values
- c. Values 110 and 121 are test data from Boundary Value Analysis
- d. Values 81 and 99 are test data from Boundary Value Analysis
- e. Values 0 and 200 are test data from Equivalent Class Partitioning

Finis
Time
FINA
MULT
1
8
15
STRUCT
21

Which of the following statements are TRUE about Modeling Languages?

Select one or more:

- a. Modeling Language depends on the programming language
- b. None of the mentioned
- c. UML is a recommended Modeling Language to design a system for a Robot.
- d. Modeling Languages can model the runtime behavior of a system
- e. SysML is a recommended Modeling Language to design a system for a Robot

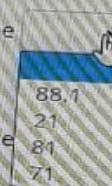
"SriBatik" is an innovative designing application for Batik industry which is to uplift self-employed people from government-related ICT group. You have been assigned to analyze the first phase's efficiency of development through burndown velocity. To proceed with, some of the data has been collected and given to you for analysis.

Days	0	1	2	3	4	5	6	7	8	9	10
Actual	142	120.3	112.5	95.4	95.4	80.1	70.3	35.5	22.4	12.2	0
Remaining Effort											
Effort											

1. By end of 5th day, remaining workload should be

velocity was man-hours per day

2. The lowest actual burn-down velocity was reported on the 5th day



man-hours and during On the 5th day, actual

Choose...

and it was

man-h

 NetExam
Sri Lanka Institute of Information Technology

In SPM final examination, student can score 0 to 3000 marks. A student must get 50% in order to pass the examination. If his score is above the pass mark but 2000 or below he will be given C grade. If he scores between 2000 – 2500 (both not inclusive) he will get a B grade and above that he is eligible for an A grade. Using boundary value analysis what will be the values for testing if we are testing for C grade?

Select one:

- a. 1500,1501,1999,2000
- b. 100, 1000, 2000, 3000
- c. 1400,1500,1900,2000
- d. 1499,1500,1999,2000
- e. 1500,1501,2000,2001

[Next page](#)

 Sri Lanka Institute of Information Technology

5 answered
3 out of 5 question

Which one of the following is **false** in the activity **End/ Final** node of an activity diagram?

Select one:

- a. None of the mentioned is true
- b. Noted as a black circle with an external border.
- c. Terminates all activities within the graph.
- d. Makes, once reached, the execution of other activities within the graph impossible.
- e. Can be used as a start point of each model.

[Next page](#)

Identify the correct activity diagram/s for the below given use case scenario.

Use Case: Add Agent Information

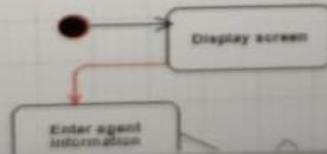
Main flow:

1. System displays the main screen to enter information.
2. Manager will enter the Agent information for the system.
3. System will display Information in the screen.
4. After that new list will be created
5. At the same time the new list will be displayed in the screen
6. Once confirmed the list will be approved.

Extensions:

- 2a. If not, valid information system terminates.
- 6a. If errors in list, asks to create the list again.

Select one or more:



SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Which of the following statements are **not true** about Partitioning in activity diagrams?

Select one or more:

- a. All of the mentioned
- b. Sub Partitioning of Swim Lanes is not possible in activity diagrams.
- c. Activity partition is shown using the swim lane notation in UML.
- d. An activity partition is an activity group for actions that belong to multiple owners.
- e. In partitioning swim lanes can be either used vertically or horizontally.

≡ Quiz

Finish at

Time left

FINAL E

1

MULTI

1

9

1

17

1

Next page

Question 1
Not yet answered
Marked out of 1.00
Flag question

Which of the following statements are **not correct** about Fork and Merge nodes?

Select one or more:

- a. Merge can be used to combine two decision paths.
- b. Both are used to showing activities that can occur in parallel
- c. Merge represents the combining parallel flows
- d. Fork shows a split in the flow of control
- e. Merge shows combining different paths

Next page

Question 1
Not yet answered
Marked out of 1.00
Flag question

Which of the following statements are **TRUE** regarding Open Source Software (OSS)?

Select one or more:

- a. None of the mentioned
- b. OSS allows to share the source code
- c. OSS can be modified by other developers
- d. OSS is always free
- e. OSS can be used in developing a commercial software

NetExam
Sri Lanka Institute of Information Technology

"Intell79" is a well-known software company and they have to develop a baggage handling system in the airports, as the existing system has many technical failures. This kind of project can be categorized as a [] (Provide the answer in one word) critical system. A critical system is a system that must be highly reliable and retain this reliability as they evolve without incurring prohibitive costs. According to details, the development team has decided to use [] model since they need to focus more on testing from the start of the project.

[Next page](#)

NetExam
Sri Lanka Institute of Information Technology

A company needs a software system to automate their process of recording customer information. According to the manager they don't have a good budget to pay for the software but they need software quickly to move forward. The manager claims that there is an in-house personnel who has the ability of configuring, working with and adapting to new software systems quickly.

Given the above scenario, which of the following is the best implementation method?

Select one:

- a. Build the software in-house
- b. Buy COTS system and tailor it accordingly
- c. Use a proprietary specialized software
- d. Build the software by a third-party company
- e. None of the mentioned

[Next page](#)



Question 2

Not yet answered

Marked out of
1.00 Flag question

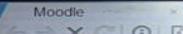
Which of the following are TRUE about Burndown Chart (BDC)?

Select one or more:

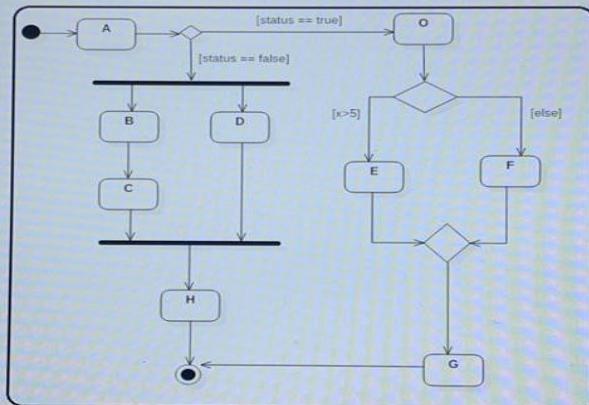
- a. BDC shows the whole project Progress
- b. BDC shows the amount of remaining work for a sprint
- c. BDC is updated daily.
- d. BDC shows work done so far for the complete project backlog
- e. None of the mentioned is true.

[Next page](#)

Moodle

Question 2
Not yet answered
Marked out of
1.00
 Flag question

Which of the following action sequence are possible during one execution of activity diagram given below?



Select one or more:

- a. A → B → C → D → H
- b. A → B → D → C → H
- c. A → O → E → F → G
- d. A → C → D → B → H

☰ Qu

Finish a

Time le

FINAL

MULT

1

9

17

STRU

21

29

37

45

FEED

51

Question 4
Not yet answered
Marked out of 1.00
 Flag question

White-Box Testing is also known as _____.

Select one or more:

- a. Structural Testing
- b. Functional Testing
- c. Data driven testing
- d. Clear Box Testing
- e. Code-based Testing

 **NetExam**
Sri Lanka Institute of Information Technology

Question 1
Not yet answered
Marked out of 1.00
 Flag question

A software is implemented to check the eligibility of the user in registering to a program. The conditions for the eligibility are given below. After going through the eligibility criteria, identify which of the following values for age are in the same **Equivalence Partition**.

i. If you are 18 or less, you are too young to be registered for the program.
ii. If you are between 18 and 50 (not inclusive), you will receive a 20% discount.
iii. If you are 50 or over, you are not eligible for a discount.

Select one:

- a. 15, 17, 19
- b. 17, 49, 51
- c. 18, 49, 50
- d. 50, 62, 73
- e. 17, 18, 19



ered
f
on

Which of the following statements are TRUE?

- i. Stubs are used in bottom-up approach.
- ii. Stubs are used in Top-down approach.
- iii. Drivers are used in bottom-up approach.
- iv. Drivers are used in Top-down approach.

Select one:

- a. i and iii
- b. i and ii
- c. ii and iii
- d. ii and iv
- e. i and iv



Question 1

Not yet answered

Marked out of
1.00

Flag question

Call activity or Sub activity is used _____

Select one:

- a. When an activity uses join or fork controls.
- b. When activity needs to show the object communication
- c. When an action is defined in more detail in another activity diagram.
- d. When an activity diagram is drawn by using swim lane notation.
- e. When an activity receives an event from an outside process.

Sri Lankan airlines wants to impose a baggage handling policy. According to that policy, the following charges are introduced for all baggage per individual customer
(weights are rounded up to the nearest 0.1Kg)

- a. The first 2Kg will be free of charge.
- b. The next 10 Kg will be for a flat charge of \$10.
- c. An additional 15Kg will be charged a total charge of \$17.
- d. Luggage over this amount will be charged at \$5 per Kg, up to a maximum of 150Kg per person.
- e. No passenger may take more than 150Kg with them.

1. What is the minimum number of boundary values needed to test this system?

2. What is the minimum number of equivalence class values needed to test this system?

Sri Lanka Institute of Information Technology

"SriBatik" is an innovative designing application for Batik industry which is to uplift self-employed people from government-related ICT group. You have been assigned to analyze the first phase's efficiency of development through burndown velocity. To proceed with, some of the data has been collected and given to you for analysis.

Days	0	1	2	3	4	5	6	7	8	9	10
Actual	142	120.3	112.5	95.4	95.4	80.1	70.3	35.5	22.4	12.2	0
Remaining Effort											
Effort											

1. By end of 5th day, remaining workload should be _____ man-hours and during On the 5th day, actual burndown velocity was _____ man-hours per day

2. The lowest actual burn-down velocity was reported on the _____ day

A dropdown menu with four items: 88.1, 21, 81, and 71. The item '88.1' is highlighted with a blue background.

man-hours and during On the 5th day, actual burndown velocity was _____ man-hours per day

Choose...

and it was _____ man-hours per day

Verification is an important process in software testing. Which of the following are not verification activities?

Select one or more:

- a. Technical Review
- b. System Testing
- c. Inspection
- d. Acceptance Testing
- e. Walkthrough



NetExam

Sri Lanka Institute of Information Technology

4
Answered
out of
question

Which of the given statements are **true** about a **Decision** node in an Activity Diagram?

Select one or more:

- a. Is noted as a diamond with multiple incoming and one outgoing edges.
- b. Should have mutually exclusive guard conditions on all outgoing edges.
- c. Shows the actions which runs concurrently.
- d. None of the mentioned
- e. Is noted as a diamond with one incoming and multiple outgoing edges.

NetExam
Sri Lanka Institute of Information Technology

It20647896 Herath H.

2 answered out of 2 question

A program will accept the unit price of a product and the quantity. When entering these inputs, first you need to enter the price of a one unit and then quantity of buying. These two inputs should be separated using a semicolon (;). Price should be entered with two decimal points and quantity always should represent using 2 digits. The maximum quantity you can buy is 50. What are the most suitable **valid** test data through equivalence partitioning?

Select one or more:

- a. 120.0 ; 85
- b. 145.50 ; 35
- c. 37.00 ; 11
- d. 145.00 ; 45
- e. 100.00 ; 100

Finish attempt ...
Time left 1:49:57
FINAL EXAMINATION
i
MULTIPLE CHOICE Q
1 2 3 4
8 9 10 11
15 16 17 18
STRUCTURED QUEST
21 22 23 24
28 29 30 31

Next page

Moodle

NetExam
Sri Lanka Institute of Information Technology

It206138

Question 3
Not yet answered
Marked out of 1.00
Flag question

A program checks that the weight of a basket of fruit is over 1 kilogram and under 1.5 kilograms. Weights are recorded to an accuracy of two decimal places and any weight not in this form should be rejected. Which of the following are **TRUE** regarding the **valid** data?

Select one or more:

- a. 1.02 with Equivalence Partitioning
- b. 1.5 with Boundary value analysis
- c. 1.49 with Boundary Value Analysis
- d. 1.49 with Boundary Value Analysis
- e. 1.3 with Equivalence Partitioning

Finish attempt ...
Time left 1:49:57
FINAL EXAMINATION
i
MULTIPLE
1 2
9 10
17 18
STRUCTURE
21 22
29 30

Next page

Question 2

Not yet answered

Marked out of
0.00

Flag question

An Activity Diagram Models:

- A. Activities of a system.
- B. Dependencies between activities.
- C. Workflows.
- D. Concurrent processes.
- E. Objects/Classes responsible for the execution of a process.

Select one:

- a. A, B and C are correct.
- b. A,D and C,E are correct.
- c. A, B, C and D are correct.
- d. All of the mentioned.
- e. None of the mentioned

Answered
of
question

Agile development methodology is

Select one or more:

- a. Incremental
- b. Iterative
- c. Sequential
- d. Linear
- e. Parallel

Which of the following are TRUE regarding Regression Testing?

Select one or more:

- a. Regression Testing makes sure that dependent modules/systems are working properly
- b. Regression Testing is carried out by the customers.
- c. Regression Testing is performed at the end of the testing phase
- d. Regression Testing is part of load testing
- e. Regression Testing must be performed whenever the software is changed

machine from their current or savings account. For each and every ATM machine there is a helper to guide pandemic helper will clean the environment for each customer. Then customer clean the card and enter the card. After card is accepted by the card reader customer can enter the pin number to login into the system. If the pin is wrong customer is asked to enter the code that was sent into the mobile phone. If the code entered is wrong system ejects the card. Customer has to reenter the pin. Also if the pin is incorrect for the second time card will be ejected by the system. After successful login customer can select the account to withdraw money. Then the system prompts for the amount of cash to be withdrawn. If the amount is correct system will withdraw the cash and display the message "Transaction successful". If the amount is incorrect error message will be displayed and asked to reenter amount. Otherwise customer can withdraw the cash. Finally system ejects the customer card.

This is a part of the use case scenario. Select the matching answer from the drop down list.

Use case ID	USDS
Use case name	Withdraw money
Primary actor	Customer
Preconditions	Bank system must be active
Main Flow	<ol style="list-style-type: none">1. customer insert the bank card into the card reader2. System reads the bank card information3. Customer enters the pin4. Customer chooses the account5. Customer enters the amount to withdraw6. system asks customer for any other transaction7. System ejects the card

1.00 Marked out of 1.00

Flag question

Information Technology

Which of the following statement(s) is/are TRUE regarding Software Testing Levels?

Select one or more:

- a. Integration testing cannot be started until all the modules/functions are completed.
- b. System Testing is a type of black box testing.
- c. Acceptance testing should always be done in a controlled environment.
- d. Beta testing is usually carried out by the QA engineers.
- e. Verifying whether software components are functioning correctly and identifying the defects in them is the objective of User Testing.

Enter the correct order to build an effective software product using the given statements.

1. Writing code and converting design documentation into the actual software within the software development process ▾

2. The newly built and tested application is moved to production including data and components transfer while during the next releases only the specific changes will be deployed ▾

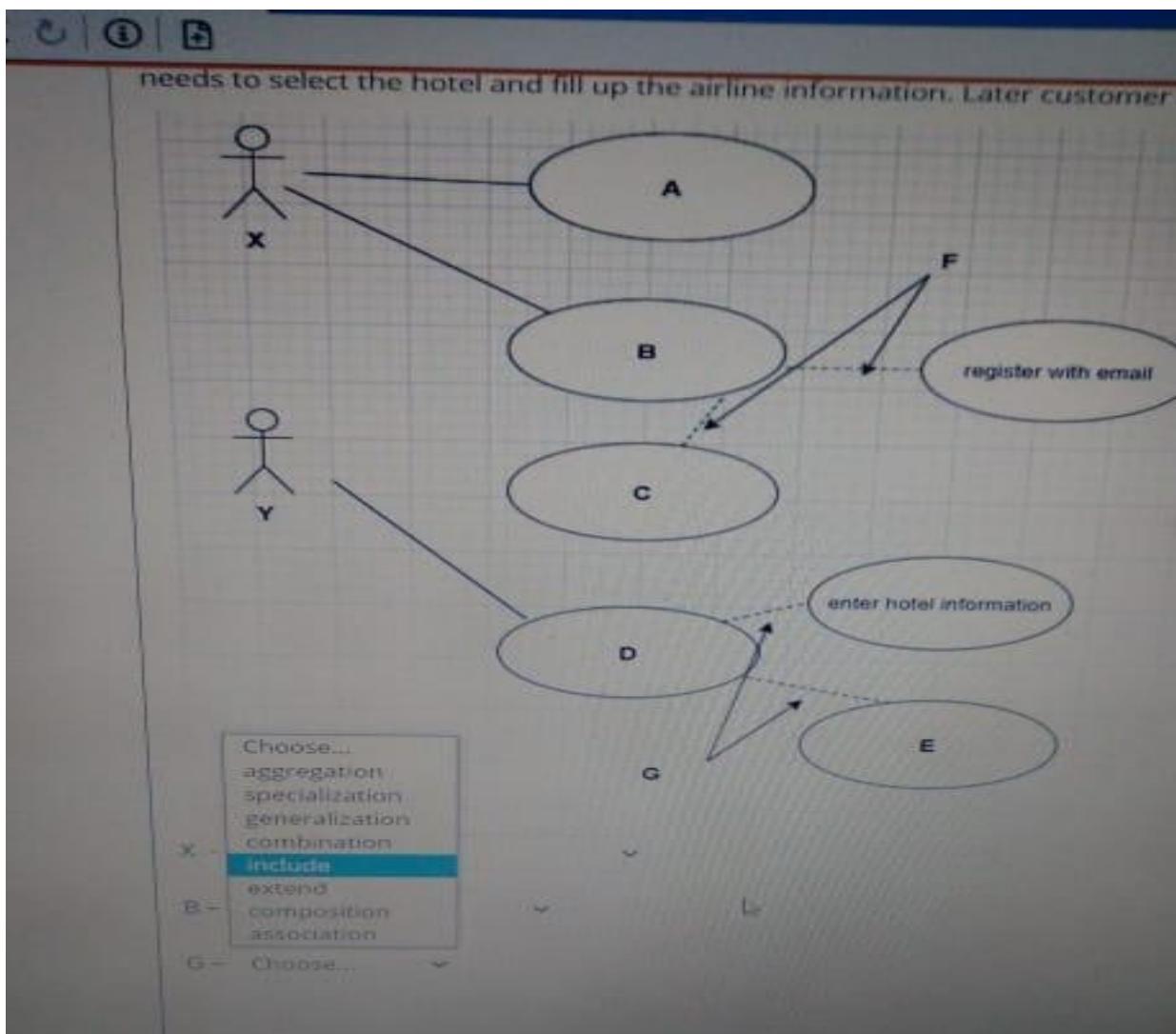
3. Need for the development team to get a deeper understanding of the project goal and collect all the requirements ▾

4. Determining the scope of the project, defining means and ways for the new system to meet business strategic objectives, resource availability, cost-related issues, timeframes and determining solutions ▾

5. The actual conceptualizing of the solution is created, that is the detailed software architecture meeting specific project requirements is created ▾

6. Involving system testing and integration starts. Depending on the adopted testing processes it might vary ▾

7. Since during the stage the product is polished, upgraded, enhanced and fine-tuned according to the real-world feedbacks on its performance ▾



Question 28
Not yet answered
Marked out of 2.00
 Flag question

SLIIT has planned to give the staff an annual bonus.

The bonus is calculated with the conditions given below. Bonus at any time cannot become negative, but it can be calculated to zero. The bonus is based on the duration of the employment. An employee can be employed for less than or equal to 1 year, more than 1 year but less than 5 years, 5 to 10 years, or longer than 10 years. Depending on this period of employment, an employee will get a bonus of 3%, 10%, 25% or 35%.

What is the **minimum** number of test case values for years of employment needed to completely cover all the Equivalence classes and Boundary values to test the calculation of the bonus?

Note: Enter only the numerical value

Answer:

Quiz navigation

Finish attempt ...
Time left 0:53:26
FINAL EXAMINATION

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	

MULTIPLE CHOICE QUESTIONS

21	22	23	24	25	26	27
28	29	30	31	32	33	34
35	36	37	38	39	40	41

STRUCTURED QUESTIONS

31	32	33	34
----	----	----	----

Question 26
Not yet answered
Marked out of 2.00
Flag question

Select the correct and incorrect statements using drop-down list.

1. Open Source Software can be used for commercial purpose .
2. Microsoft Office is an Open source software .
3. A Proprietary software owned by an organization, you may need to buy a license for .
4. The users must agree to the License terms and agreements when they use an open source software .
5. A Proprietary software can be copied, modified and shared .

[Next page](#)

Question 20
Not yet answered
Marked out of 1.00
Flag question

Consider following statements about software reuse. Which statement(s) is/are TRUE about Software reuse?

Select one or more:

a. Integrating reusable software from different providers can be difficult and expensive
 b. None of the mentioned
 c. Open source software cannot be identified as a reusable code base
 d. Reusing also contain some costs like cost of adapting and configuring the reusable software components or systems to reflect the requirements of expected system
 e. Developer search for reusable elements, then modify according to requirements and design to make the best use of those.

[Next page](#)

NetExam
Sri Lanka Institute of Information Technology

Question 22
Not yet answered
Marked out of 2.00
Flag question

The following description is related to **Product Backlog**. Read the given description carefully and find suitable choices from the answers.

A product backlog may represent many weeks or months of work, which is much more than which can be completed in a single project. To determine the most subset of product backlog items to build in, the scrum team performs sprint planning meeting. In this meeting, Product Owner explains which functions of product backlog should be developed. This subset of functions is called a Sprint and are represented by Sprint Backlog.

Sprint Retrospection **Sprint review** **Sprint** **client** **sprint planning** **scrum planning**
Product Owner **product owner** **User Stories** **SRS** **project**
Scrum Master **year** **Decision Trees**

Next page

← → × C | ⓘ | 🔍

Sri Lanka Institute of Information Technology

Question 49
Not yet answered
Marked out of 2.00
Flag question

Read the following scenario and select the choices from the given below

"Book for You" is a ticket reservation system introduced by the Sri Lankan government for the citizens and tourists to book the highway and railway tickets at any time in a day. The objective of this project is to increase the user's convenience. By calling several tenders, the transport minister committee has selected your company. After several meetings with the respective personals, the Scrum Master has come up with a list of PBIs (Product Backlog Items).

Select 4 user stories for the first Sprint Backlog.

Note: At the first sprint it plans to launch the web site with the most required features.

- As a user, I want to check the available seats before my booking so that, I can book the tickets according to my preference Choose... ▾
- As a minister, I want to check all the bookings customers made and their preferences so that, I can take necessary decisions to support their requests Choose... ▾
- As a user, I want to check the train ticket time tables so that, I can manage my bookings Choose... ▾
- As a user, I want to get details about the nearest scenery locations so that, I can enjoy my tour Choose... ▾
- As a bus driver, I want the system to send the notifications about user's booking so that, I can confirm the reservations Choose... ▾
- As a bus driver, I want to see the updated booking in a dashboard so that I can manage user's inquiries. Choose... ▾

☰ Quiz navigation

Finish attempt ...
Time left 0:09:29
FINAL EXAMINATION

1	2	3	4
8	9	10	11
15	16	17	18
21	22	23	24
28	29	30	31
35	36	37	38
42	43	44	45

STRUCTURED QUEST

NetExam
Sri Lanka Institute of Information Technology

"Intell79" is a well-known software company and they have to develop a baggage handling system in the airports, as the existing system has many technical failures. This kind of project can be categorized as a [] (Provide the answer in one word) critical system. A critical system is a system that must be highly reliable and retain this reliability as they evolve without incurring prohibitive costs. According to details, the development team has decided to use [] model since they need to focus more on testing from the start of the project.

[Next page](#)

NetExam
Sri Lanka Institute of Information Technology

Question 22
Not yet answered
Marked out of 2.00
[Flag question](#)

The following description is related to Product Backlog. Read the given description carefully and find suitable choices from the answers.

A product backlog may represent many weeks or months of work, which is much more than which can be completed in a single []. To determine the most subset of product backlog items to build in, the scrum team performs [] meeting. In this meeting [] explains which functions of product backlog should be developed. This subset of functions is called a [] and are represented by [].

Sprint Retrospection Sprint review Sprint client sprint planning scrum planning
 Product Owner product owner User Stories SRS project Sprint Backlog
 Scrum Master year Decision Trees

[Next page](#)



Question 5

Not yet answered
Marked out of
1.00

Flag question

Team ABC is in their Sprint Planning Meeting. They have realized that the Sprint Backlog has more than the items they can complete in a Sprint. Which of the following are the best to do?

Select one or more:

- a. Get more developers onboard
- b. Work overtime
- c. Inform the Product Owner
- d. Take a decision to remove some of the Sprint Backlog Items
- e. Add grace period to finish incomplete work

Next page

1.00
Flag question

```
void main(){
    int row ,col;
    for (row=1; row<=5; row++){
        for (col=1; col<=5; col++){
            if(row==1||row==5|| col==1 || col==5)
                printf(" *");
            else
                printf(" ");
        }
        printf("\n");
    }
}
```

(a)

```
void main()
{
    int row, col;
    for (row=1; row<=5; row++) //outerloop
    {
        for (col=1; col<=5; col++) //inner loop
        {
            if(row==1 || row==5 || col==1 || col==5)
                printf(" *");
            else
                printf(" ");
        }
        printf("\n");
    }
}
```

(b)

Select one:

- a. Only (a) is following coding standards
- b.
- c. Both (a) and (b) follow the coding standards
- d. Only (b) is following coding standards
- e. Both (a) and (b) do not follow the coding standards

= Quiz navigation

Finish attempt ...

Time left 1:53:28

FINAL EXAMINATION



MULTIPLE CHOICE QUESTIONS

1	2	3	4	5	6
8	9	10	11	12	13
15	16	17	18	19	20

STRUCTURED QUESTIONS

21	22	23	24	25	26	27
28	29	30	31	32	33	34
35	36	37	38	39	40	41
42	43	44	45	46	47	48
49	50					

FEEDBACK

 Sri Lanka Institute of Information Technology

A QA Engineer says "It is difficult to fix errors at the latter stages of SDLC". Which of the following would be the reasons for this statement?

Select one or more:

- a. Last stages of the SDLC is mainly to work with the clients.
- b.

SDLC is not concerned about finding errors early

- c. Continuous coding, testing have happened on top of the error.
- d.

The error has affected many phases of SDLC

- e. Latter stages have less developers to fix the errors

[Next page](#)

 NetExam
Sri Lanka Institute of Information Technology

Select the correct option(s) below which describes the following statement from the given text:

1. Last stages of the SDLC is mainly to work with the clients.

2. Continuous coding, testing have happened on top of the error.

3. The error has affected many phases of SDLC.

4. Latter stages have less developers to fix the errors.

[Submit answer](#)

ation 5
yet answered
ked out of
Flag question

UML

Select one or more:

- a. is the only standard used in software design
- b. none of the mentioned
- c. builds a physical model of the system
- d. stands for Unique Modeling Language
- e. can show the static and dynamic behavior of a system

 NetExam
Sri Lanka Institute of Information Technology

Which of the following are **TRUE** about Open Source Software?

Select one or more:

- a. Open Source Software can be used for commercial purposes
- b. Open Source Software can be a proprietary software
- c. Users have the freedom to pass on the software to friends and family as they wish
- d. None of the mentioned
- e.

Users can obtain a free trial version of the software, but this often does not contain all the features of the full version 



Answered
of
question

Which of the following the Development Team should **not do** during the first Sprint?

Select one or more:

- a. Develop the easiest function first
- b. Develop and deliver at least one piece of functionality.
- c. Design the complete architecture and infrastructure for the whole project.
- d. Develop a plan for the rest of the project
- e. Deliver an increment of potentially shippable functionality.

Next page

A text field should have only lowercase letters and numbers. What are the most suitable test data representing the **valid** Equivalency Partitions?

Select one or more:

- a. Sampletext
- b. mytext5
- c. newtext#
- d. sampletext
- e. myTEXT1

NetExam
Sri Lanka Institute of Information Technology

Section 2
Total unanswered: 0
Marked out of 100
Flag question

You are given the following activity diagram.
Which of the following action sequences are **possible** during one execution of the activity diagram?

```
graph LR; Start(( )) --> Diamond1{ }; Diamond1 --> A[A]; A --> B[B]; B --> Diamond2{ }; Diamond2 --> End(( )); Diamond2 --> P1{ }; P1 --> A;
```

Select one or more:

- a. B>C>A
- b. A>B>C
- c. A>C
- d. A>B>A>B>C
- e. None of the mentioned is correct.

NetExam
Sri Lanka Institute of Information Technology

Section 9
Not yet answered
Marked out of 1.00
Flag question

The following describes a scenario in a software development company.

- i. Saman is a developer and he received some UML diagrams such as class diagram and ER diagram from the developer.
- ii. Saman completed creating the database using the class diagram.
- iii. Seeing this, Saman's senior developer told that he is following a reverse engineering process in implementation.

Which of the above statements are **TRUE** about the above incident?

Select one:

- a. i only
- b. All the statements are incorrect.
- c. i and ii are correct.
- d. ii and iii are correct.
- e. i and ii are correct.
- f. ii only

NetExam
Sri Lanka Institute of Information Technology

Not yet answered
Marked out of 1.00
Flag question

What is the difference between Join and Merge nodes?

Select one:

- a. All of the mentioned.
- b. Join considers the execution of all the parallel paths while Merge considers only the result of one alternative path.
- c. Join should have a Decision node associated with it while Merge node should have Fork associated with it.
- d. None of the mentioned
- e. Join represents the merging of multiple flows of control back into one whereas the Merge node represents the merging of control flows

NetExam
Sri Lanka Institute of Information Technology

Question 13
Not yet answered
Marked out of 1.00
Flag question

Which of the following action sequence is not possible during one execution of the activity diagram?

```
graph LR; Start(( )) --> A[A]; A --> B[B]; B --> D[D]; D --> End((( )));
A --> C[C];
C --> End;
```

Select one:

- a. A → B → D → C
- b. All of the mentioned is correct
- c. A → B → C → D
- d. A → D → C → B
- e. A → C → B → D

Information Technology

You are to develop an online education support system for Grade 4 and Grade 5 students in Sri Lanka. Basically, it is designed to support students in a pandemic situation. The system should provide an interactive session with students and it should consist of webinars and collaborative games. As it designed for grade 4 and 5 children, main quality attribute need to concern are User-friendliness and Accessibility.

most appropriate answer from the options given.

Next page

34 Sri Lanka Institute of Information Technology

ProjectExam

Jinali is working as a trainee software engineer. Her tech lead told her to always use comments while coding. She has not practiced this before. So it took her a long time to code while commenting. What are the most appropriate statement(s) for her to follow from below?

1/10
Marked out of 10
By Flag question

Select one or more:

a. It is okay to skip commenting as she is a trainee and as it takes too much time to code and helps in debugging so she must practice that statements?

b. Commenting is a good coding practice and is a standard, thus it is good to learn proper coding habits from the beginning

c. Commenting helps others to understand the code and helps in debugging so she must practice that statements?

d. None of the mentioned

e. It is okay to skip commenting as they are sure that there will be no further fixes in this software

Finish at
Time left 1:48
FINAL EXAM
MRU

NetExam
Sri Lanka Institute of Information Technology

Consider following code segments.

```
void main() {
    int a=40000,b=2000;
    if(a>b) printf("Wow!");
    else printf("Really!");
}
```

(a)

```
void main()
{
    int a=40000,b=2000;
    if(a>b) // comparison of a and b
        printf("Wow!");
    else
        printf("Really!");
}
```

(b)

What is most relevant about the above code segments?

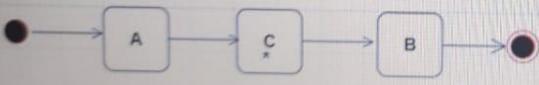
Select one:

- a. Code (b) is following proper indentation
- b. Code (b) is having proper indentation and commenting
- c. Code (a) is following proper indentation
- d. Code (a) is having proper indentation and less white space standard
- e. Both Code (a) and code (b) is having proper indentation and commenting

NetExam
Sri Lanka Institute of Information Technology

You are given the below activity diagram. Fill in the blanks with correct words.

This asterisk notation is used to show iteration , without the unnecessary details of a loop construct. But if you want to show loop termination conditions and number of repetitions you can draw the diagram using .


The diagram shows a sequence of three rounded rectangular nodes labeled A, C*, and B. Node A has an incoming arrow from the left and an outgoing arrow pointing to node C*. Node C* has an incoming arrow from node A and an outgoing arrow pointing to node B. Node B has an outgoing arrow pointing to the right, ending at a final node symbol (a circle with a dot). The asterisk (*) is placed inside the C node.

[Go to page](#)



on 23

not answered

out of

g question

A street has house numbers in the range from 10 to 22 including both numbers.

You have written a program to validate the house numbers.

Choose the values **in ascending order** which cover all the Equivalence Classes excluding boundary values

1.

2.

3.

23 32 11 21 10 3 18 22 9

red

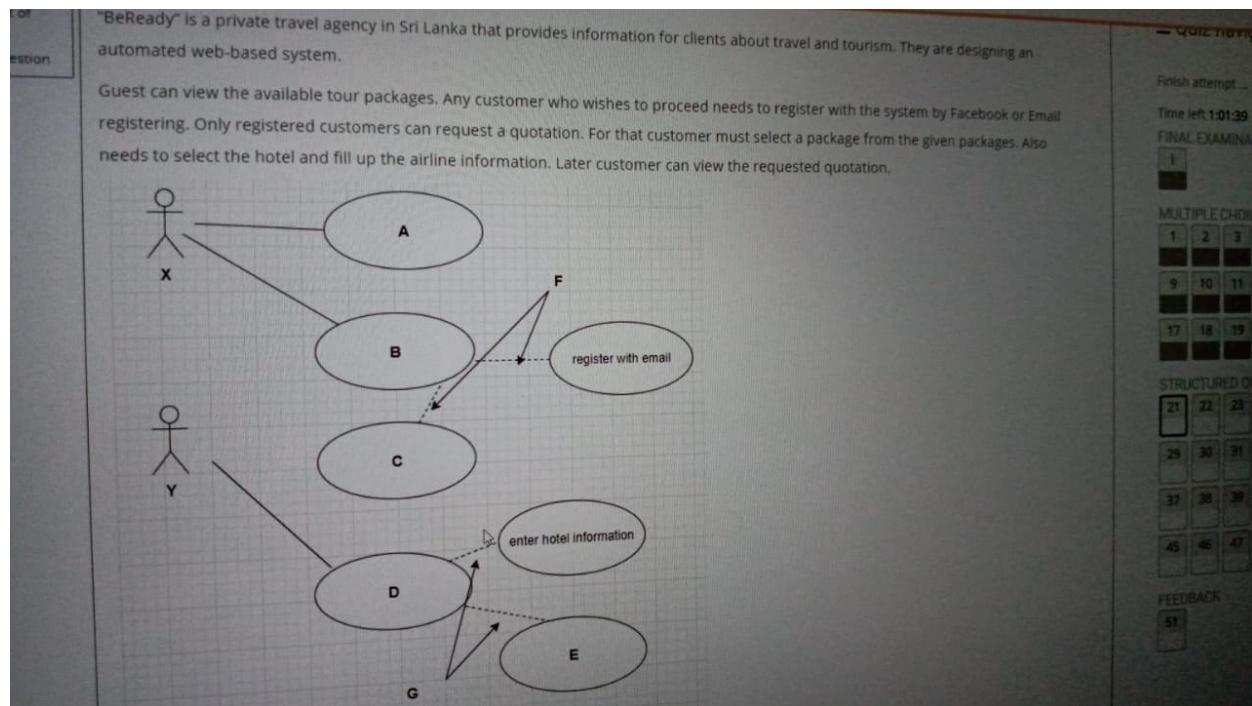
on

A water heater has a sensor which is automatically switched on and off depending on the water temperature. If the temperature falls below 25, heater status is switched on and it is turned off when the temperature is more than 45. All the temperature values are in Celsius. To test whether the sensor works properly the two inputs we have to consider are

1. temp<25

2. temp>45

Next page



NetExam
Sri Lanka Institute of Information Technology

Question 22
Not yet answered
Marked out of 2.00
 Flag question

The following question is based on **Scrum**. Read the given description carefully and select the suitable words from the given dropdown.

Malithi is an employee of "Atreium" Company. Initially, she is attached to "RedMax" team for developing an E-learning application for a 1-year duration. RedMax follows the Scrum process and she realized that each day she has to inform Functions that she has encountered the previous day to Mr Grey. Each Day Mr Grey takes meeting to discuss with team members.

This meeting is called Mr Grey is responsible to shield the to their team. He acts as a than a

[Next page](#)

Quiz navigation
Finish attempt ...
Time left 1:18:48
FINAL EXAMINATION
 1

MULTIPLE CHOICE QUESTIONS
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20

STRUCTURED QUESTIONS
21 22 23 24 25 26 27
28 29 30 31 32 33 34
35 36 37 38 39 40 41

NetExann
Sri Lanka Institute of Information Technology

Question 25
Not yet answered
Marked out of 2.00
Flag question

prototype model is the better way to communicate the end product requirements to clients but main disadvantage is scope creeping spiral model is suitable when there are complex, constantly changing requirements with high risks.

Quiz navigation
Finish attempt...
Time left 1:04:05
FINAL EXAMINATION
1
MULTIPLE CHOICE QUESTIONS
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20
STRUCTURED QUESTIONS
21 22 23 24 25 26 27
28 29 30 31 32 33 34
35 36 37 38 39 40 41

Enter the correct order to build an effective software product using the given statements.

1. Writing code and converting design documentation into the actual software within the software development process 4
2. The newly built and tested application is moved to production including data and components transfer while during the next releases only the specific changes will be deployed 6
3. Need for the development team to get a deeper understanding of the project goal and collect all the requirements 1
4. Determining the scope of the project, defining means and ways for the new system to meet business strategic objectives, resource availability, cost-related issues, timeframes and determining solutions 2
5. The actual conceptualizing of the solution is created, that is the detailed software architecture meeting specific project requirements is created 3
6. Involving system testing and integration starts. Depending on the adopted testing processes it might vary 5
7. Since during the stage the product is polished, upgraded, enhanced and fine-tuned according to the real-world feedbacks on its performance 7



Question 13

Not yet answered
Marked out of
1.00

Flag question

Which of the following can be achieved through Static Verification?

Select one or more:

- a. Checking whether the system achieves the expected accuracy
- b. Checking whether the system achieves the expected performance
- c. Checking whether ER models are built correctly
- d. Checking whether coding standards are followed properly
- e. Checking whether the system executes as the customer expected

Which of these code snippets is most reliable, according to coding standards?

Select one:

- a. All of the mentioned
- b.

```
var addUp = function(a, b) {  
    var c=a+b;  
    return c;  
}
```

- c.

```
var addUp = function(a, b) {  
    var c = a+b;  
    return c;  
}
```

- d.

```
var addUp = function(a, b) {var c=a+b; return  
c;}
```

- e.

```
var addUp = function(a, b)  
{  
    var c = a+b;  
    return c;  
}
```

Moodle

NetExam
Sri Lanka Institute of Information Technology

Question 24
Not yet answered
Marked out of 2.00
Flag question

The following description is related to **Product Backlog**. Read the given description carefully and find suitable choices from the answers.

A product backlog may represent many weeks or months of work, which is much more than which can be completed in a single **Sprint**. To determine the most subset of product backlog items to build in, the scrum team performs **sprint planning** meeting. In this meeting, **product owner** explains which functions of product backlog should be developed. This subset of functions is called as **Sprint Backlog** and are represented by **User Stories**.

Decision Trees project Scrum Master scrum planning client
User Stories product owner Product Owner Sprint Retrospection Sprint review
sprint planning year Sprint SRS

Quiz navigation

Finish attempt ...
Time left 1:07:12
FINAL EXAMINATION

MULTIPLE CHOICE QUESTIONS

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	

STRUCTURED QUESTIONS

21	22	23	24	25	26	27
28	29	30	31	32	33	34
35	36	37	38	39	40	41

Quiz navigation

Finish attempt ...
Time left 1:06:56
FINAL EXAMINATION

MULTIPLE CHOICE QUESTIONS

1	2	3
9	10	11
17	18	19

STRUCTURED QUESTIONS

21	22	23
29	30	31

Next page

Question 24

Not yet answered

Marked out of
2.00 Flag question

Read the following scenarios and select correct Engineering type from the drop down lists.

1. Cam Bank has been using AS400 as its system since 1980. The bank is planning to expand the customer base and facilitate more functions. The methodology they could use is Choose... ▾ They got to know that they could use a tool to do most of

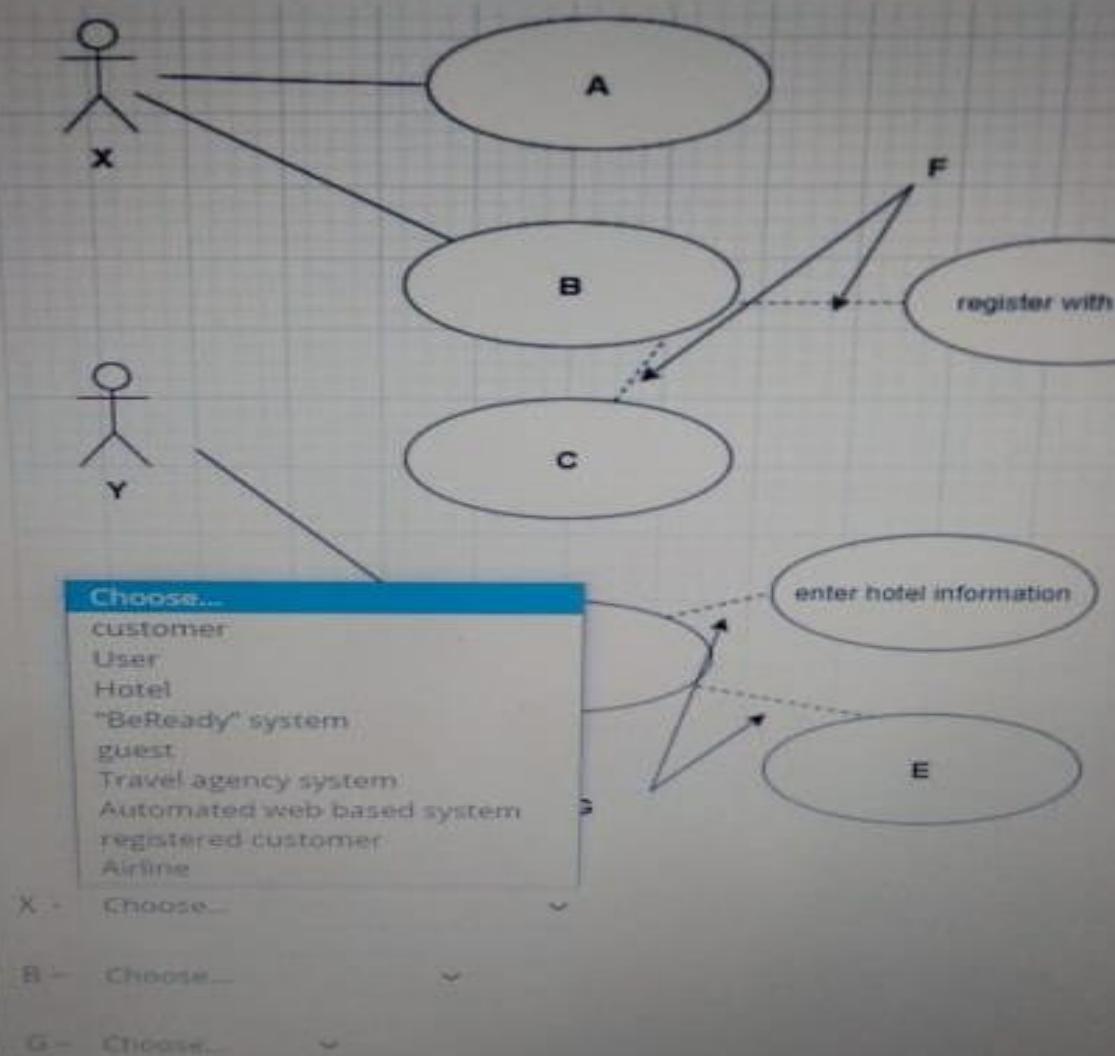
the tasks provided that they know the used Choose... ▾

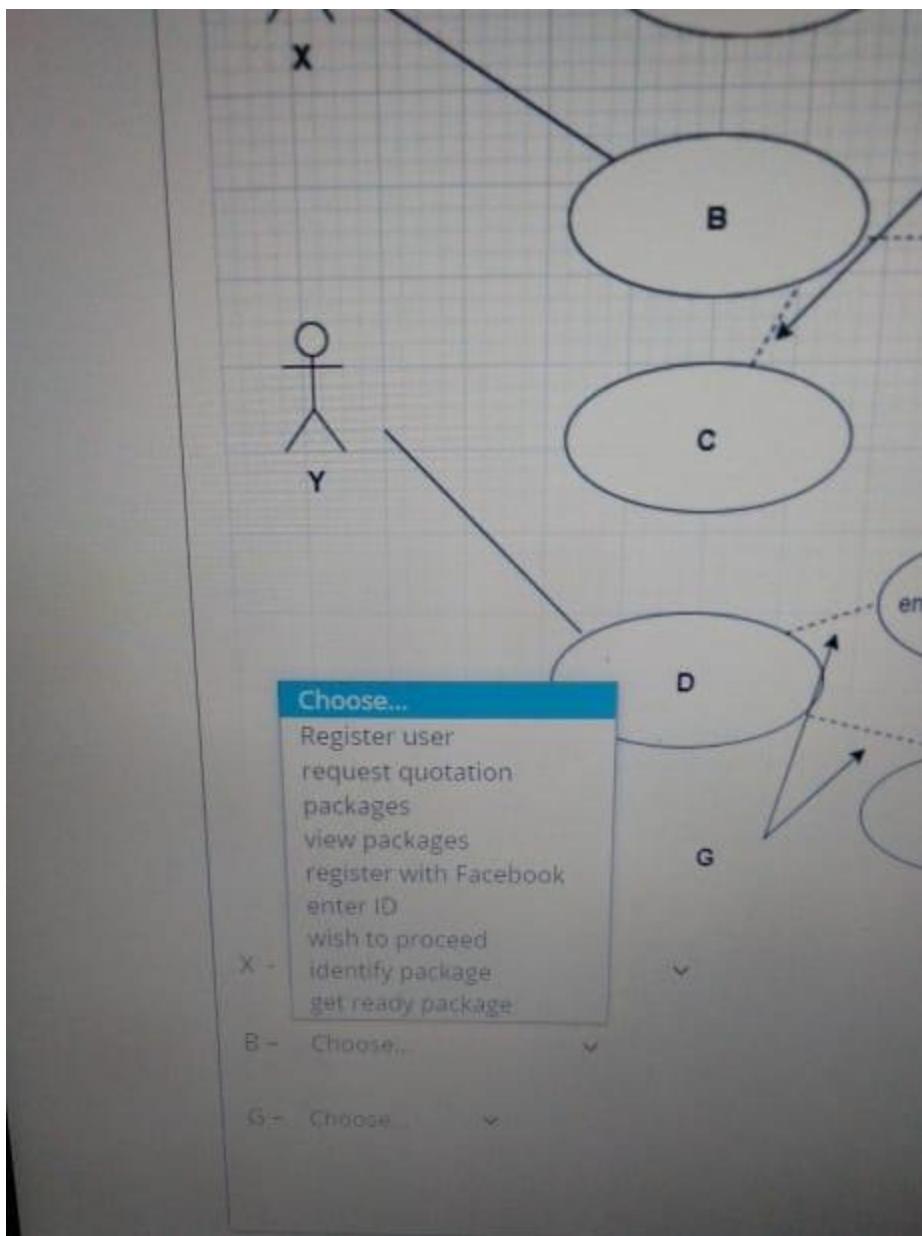
2. Sam Bank has planned to develop an online banking platform to accommodate most of the customer requirements. This development will be carried out using Choose... ▾ Further Sam Bank wants to interface with Cam Bank to provide more facilities to

the customers. This can be achieved by understanding the Choose... ▾ through Choose... ▾

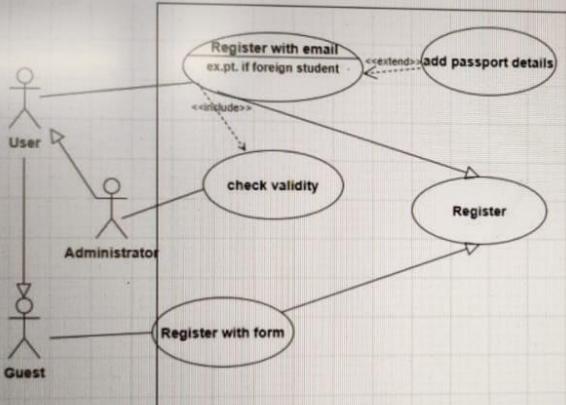
[Next page](#)

needs to select the hotel and fill up the airline information. Later customer needs to register with the system.





Below is a use case diagram clipping for a student registration system for a webinar session.



Guest can execute parent use case . while the User can execute parent use case ."check validity" is a/an mandatory use case of "Register with email".

Sri Lanka Institute of Information Technology

An automated air-conditioner is programmed to turn its heating unit on when the temperature falls below 15 Degrees and to turn its refrigeration unit on when the temperature exceeds 30 Degrees. The air-conditioner is designed to operate at temperatures between -10 Degrees and +45 Degrees.

Given the above specification, which of the following sets of values shows the complete set of equivalence partition test values excluding the boundaries in ascending order?

- -
 -
 -
 -

45 42 -11 15 -15 -10 19 -9 29 55 0 31

Next page

NetExam
Sri Lanka Institute of Information Technology

42
answered
out of
questions

Admins of a Facebook group want to develop an online polling system to create polls, view results and analyse results. Initially your team did a feasibility study to find out whether you can go with this project and you decided the project is feasible and realistic. As the next step your team decided to gather requirements for project by interviewing and observing, this phase is known as [redacted]. After gathering all requirements then team wrote down the requirements in a very detailed manner using graphical notations and using structured languages. Writing down requirements in well detailed manner is known as [redacted].

Note: Drag and drop answers.

Next page

NetExam
Sri Lanka Institute of Information Technology

Admins of a Facebook group want to develop an online polling system to create polls, view results and analyse results. Initially your team did a feasibility study to find out whether you can go with this project and you decided the project is feasible and realistic. As the next step your team decided to gather requirements for project by interviewing and observing, this phase is known as [redacted]. After gathering all requirements then team wrote down the requirements in a very detailed manner using graphical notations and using structured languages. Writing down requirements in well detailed manner is known as [redacted].

Note: Drag and drop answers.

Next page

16
Answered
out of
Question

Sri Lankan airlines wants to impose a baggage handling policy. According to that policy, the following charges are introduced for all baggage per individual customer (weights are rounded up to the nearest 0.1Kg)

- a. The first 2Kg will be free of charge.
- b. The next 10 Kg will be for a flat charge of \$10.
- c. An additional 15Kg will be charged a total charge of \$17.
- d. Luggage over this amount will be charged at \$5 per Kg, up to a maximum of 150Kg per person.
- e. No passenger may take more than 150Kg with them.

1. What is the minimum number of boundary values needed to test this system?

2. What is the minimum number of equivalence class values needed to test this system?

Next page



NetExam

Sri Lanka Institute of Information Technology

Question 2
yet answered
Marked out of
0
Flag question

Which of the following statements are TRUE about Modeling Languages?

Select one or more:

- a. Modeling Languages can model the runtime behavior of a system
- b. Modeling Language depends on the programming language
- c. SysML is a recommended Modeling Language to design a system for a Robot
- d. None of the mentioned
- e. UML is a recommended Modeling Language to design a system for a Robot

Moodle

NetExam
Sri Lanka Institute of Information Technology

Question 4
Not yet answered
Marked out of 1.00
Flag question

A tester is executing a test to evaluate the user input for a certain field. The field is populated using a dropdown box containing a list of values. Which of the following best describes the type of testing he performs?

Select one:

- a. Load Testing
- b. Black-box Testing
- c. White-box Testing
- d. Regression Testing
- e. None of the given options

Quiz nav
Finish attempt
Time left 1:49:2
FINAL EXAMIN
MULTIPLE CH
STRUCTURED
Next page

NetExam
Sri Lanka Institute of Information Technology

Question 20
Not yet answered
Marked out of 1.00
Flag question

Consider following statements about software reuse. Which statement(s) is/are TRUE about Software reuse?

Select one or more:

- a. Integrating reusable software from different providers can be difficult and expensive
- b. None of the mentioned
- c. Open source software cannot be identified as a reusable code base
- d. Reusing also contain some costs like cost of adapting and configuring the reusable software components or systems to reflect the requirements of expected system
- e. Developer search for reusable elements, then modify according to requirements and design to make the best use of those

Next page

7

answered
out of

g question

To pass SPM module, you must score a minimum of 50 marks. The maximum that you can score is 100 marks. Identify Valid Equivalence Partition values for you to **pass** SPM module.

Select one:

- a. 49, 50, 51
- b. 45, 46, 50
- c. 0, 15, 50
- d. 45, 58, 75
- e. 52, 60, 99



NetExam

Sri Lanka Institute of Information Technology

Section 2

Not yet answered
Marked out of
0.00

Flag question

Jinali is working as a trainee software engineer. Her tech lead told her to always use comments while coding. She has not practiced this before. So it took her a long time to code while commenting. What are the most appropriate statement(s) for her to follow from below statements?

Select one or more:

- a. Commenting helps others to understand the code and helps in debugging so she must practice that
- b. Commenting is a good coding practice and is a standard, thus it is good to learn proper coding habits from the beginning
- c. It is okay to skip commenting as they are sure that there will be no further fixes in this software
- d. None of the mentioned
- e. It is okay to skip commenting as she is a trainee and as it takes too much time

Next page

7
swered
ut of
question

Quiz

Finish after

Time left 0:10

FINAL EXA

i

MULTIPLE C

1

2

8

9

15

16

STRUCTURE

21

22

28

29

35

36

42

43

44

"SriBatik" is an innovative designing application for Batik industry which is to uplift self-employed people. As a government-related ICT group, you have been assigned to analyze the first phase's efficiency of development of "SriBatik" through burndown velocity. To proceed with, some of the data has been collected and given to you for reference.

Days	0	1	2	3	4	5	6	7	8	9	10
Actual	142	120.3	112.5	95.4	95.4	80.1	70.3	35.5	22.4	12.2	0
remaining											
Effort											

1. By end of 5th day, remaining workload should be man-hours and during On the 5th day, actual burndown

velocity was man-hours per day

2. The lowest actual burn-down velocity was reported on day Choose... and it was man-hours per day

Next page

task can be completed by the government to have 9-man hours per day to implement the system and "Imotions" planned to complete the project within 12 days

software development company which practices agile methodologies in their development. "Imotions" planned to complete the system within 12 days

task completing can be mentioned following way. Which statements are TRUE about the project?

Day 01	Remaining 102
Day 02	Remaining 98
Day 03	Remaining 90
Day 04	Remaining 83
Day 05	Remaining 75
Day 06	Remaining 70
Day 07	Remaining 70
Day 08	Remaining 50
Day 09	Remaining 32
Day 10	Remaining 17
Day 11	Remaining 07
Day 12	Remaining 02
Day 13	0

Select one or more:

- a. Highest burn down velocity is reported on 09th day and lowest burn down velocity is reported on 07th and 08th days
- b. On 06th day actual velocity is equal to ideal velocity and sixth, seventh days are spent without any progress.
- c. The total effort of the project is 118 man hours and performance of the project in 06th, 07th and 08th days are considerable.
- d. As the performance of the project is low in first half of the project they couldn't complete the project before the deadline.
- e. The same burndown velocity is reported on 3rd and 5th days and it uses 08 man-hours per day.

NetExam
Sri Lanka Institute of Information Technology

A QA Engineer says "It is difficult to fix errors at the latter stages of SDLC". Which of the following would be the reasons for this statement?

Select one or more:

- a. SDLC is not concerned about finding errors early
- b. Last stages of the SDLC is mainly to work with the clients.
- c. Latter stages have less developers to fix the errors
- d. The error has affected many phases of SDLC
- e. Continuous coding, testing have happened on top of the error.

Finish
Time is
FINAL
MULT
1
9
17
STRU
21

NetExam
Sri Lanka Institute of Information Technology

Which of the following is delivered at the end of the Sprint?

Select one:

- a. Wireframes designs for User Interface
- b. The software design document
- c. Sketches of the design
- d. A Test case document containing for the current sprint
- e. An increment of software



Question 5

Not yet answered

Marked out of
1.00

* Flag question

Who is responsible to accept the product increment?

Select one:

- a. Project Manager
- b. The Scrum Team
- c. The Product Owner
- d. The Development Team
- e. The Scrum Master



Question 7

Not yet answered

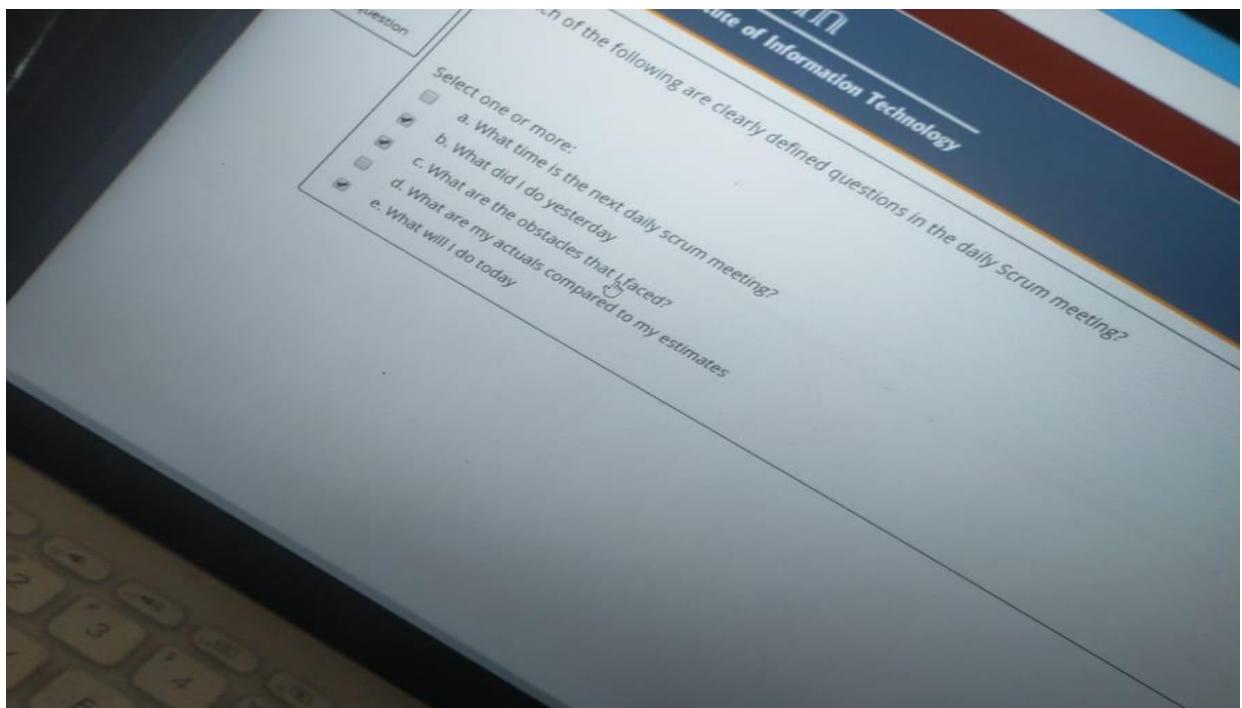
Marked out of
0.00

* Flag question

Dulani is a member of a SCRUM development team. Explain the role of Dulani from the below options.

Select one or more:

- a. Discuss missing requirements with the customers.
- b. Help the product owner to check functions created by developers
- c. Code and test
- d. Estimate the effort for user stories
- e. Design and analyze





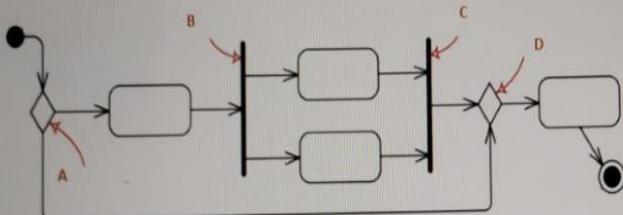
Question 5

Not yet answered

Marked out of
1.00

Flag question

What do the UML Symbols A, B, C and D represent in the given activity diagram?



Select one:

- a. A : Decision node, B : Fork node, C : Join node, D : Merge node
- b. A : Decision node, B : Join node, C : Fork node, D : Merge node
- c. A : Decision node, B : Fork node, C : Merge node, D : Join node
- d. A : Merge node, B : Fork node, C : Decision node, D : Join node
- e. A: Merge node, B: Fork node, C: Join node, D: Decision node

Next page



Question 4

Not yet answered

Marked out of
1.00

Flag question

Which of the following statements are TRUE regarding Open Source Software (OSS)?

Select one or more:

- a. OSS is always free
- b. OSS can be used in developing a commercial software
- c. OSS allows to share the source code
- d. OSS can be modified by other developers
- e. None of the mentioned

 NetExam
Sri Lanka Institute of Information Technology

Question 1
Not yet answered
Marked out of 1.00

An Online Train Reservation System asks number of seats to be reserved by user where user can reserve seats till its capacity will be full. Assume the maximum capacity is represented by MAX. If a tester wants to test the number of seats using **Boundary Value Analysis**, which of the following represent the most set of input test data values?

Select one:

- a. 0, 1, MAX, MAX+1
- b. 1, 2, MAX-1, MAX, MAX+1
- c. 0, 1, 10, 100, MAX, MAX+1
- d. 0, 1, 2, MAX + 1, a very large number
- e. -1, 0, 1, 99, 100, 101

 Sri Lanka Institute of Information Technology

Question 13
Not yet answered
Marked out of 1.00

ABC Supermarket gives discount based on total prices of purchased items. If the customer total payment is below Rs.2000/-, then no discount will be given. For purchases from Rs. 2000 to 20000, a 10% discount will be given. For total payment above Rs.20000/- it gives 15% discount. Which of the following sets of values lie in 3 different equivalence classes?

Select one:

- a. 2500, 10500, 20500
- b. 1800, 2003, 58000
- c. 2001,10000, 20002
- d. 1800, 2000, 8000
- e. 100,1800, 20001

Quiz navigation
Finish attempt
Time left 1:13:45
FINAL EXAMINATIONS
1

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20

MULTIPLE CHOICE QUESTIONS

The following question is based on the Scrum process. Read the given description carefully and Drag and Drop the suitable words from the given below.

Organizations are repeatedly delighting their customers by giving them what they really want, not just the features they might have specified on the first day when they knew the least about their true needs. They are also seeing an improved profit by delivering [redacted] more frequent releases through SCRUM.

Scrum's focus on delivering working, [redacted], tested, [redacted] after each iteration leads to results being delivered fast. Scrum is also well suited to help organizations succeed in a complex world where they must quickly adapt based on the interconnected actions of competitors, customers, users, [redacted], and other stakeholders.

release, integrated, repeatedly, least, larger, isolated, smaller
regulatory bodies, profit, most

Next page

NetExam

Sri Lanka Institute of Information Technology

Which of the following are TRUE about Sprint Retrospective?

Select one:

- a. Sprint Retrospective is a meeting where only the development team members are present
- b. Sprint Retrospective is a meeting where only the development team members and SCRUM master are present
- c. Sprint Retrospective is a meeting where product owner, the development team members and SCRUM master are present
- d. None of the mentioned is correct
- e. Sprint Retrospective is a meeting where all the stakeholders are present

Which statements are TRUE about Sprint review?

Select one or more:

- a. In sprint review any change can be accommodated and changes will be reprioritized for next sprint.
- b. It will last 4-hour time for 1 month's increment, and stakeholders will not be participated for sprint review.
- c. Sprint review will be held at the end of each quarter of sprint and it will be conducted to inspect the increment and adapt the product backlog according to the changes
- d. Product owner, scrum master and team members will participate with the working product
- e. None of the mentioned is correct.

Next page

Check the part of the use case diagram given below. Select the phrase which is not appropriate.

```
graph LR; Actor[Guest] --> UC_Register[Register]; Actor --> UC_RegisterWithForm[Register with form]; UC_RegisterWithForm --> UC_Register
```

The diagram shows a use case diagram on a grid background. On the left, there is a stick figure representing an actor named "Guest". A line connects the "Guest" actor to an oval representing a use case named "Register with form". From the "Register with form" use case, a line points to another oval representing a use case named "Register". On the right side of the diagram, there is a stick figure representing an actor named "User". A line connects the "User" actor to the "Guest" actor, indicating that the "User" can execute the "Guest" role.

Answer :

The "register with form" use case add or override the behavior of "register" use case

The "register with form" use case may add or override the behavior of its parent

The child use case inherits the behavior and meaning of the parent use case

User can execute "Register with form" use case

The "register with form" use case inherits the behavior and meaning of the "register" use case

The "register with form" use case inherits the behavior and meaning of the parent use case

Which statements are TRUE about daily SCRUM?

Select one or more:

- a. Product backlog will be updated according to the recommendation
- b. It denotes as daily stand up meeting and it lasts only short period like 15 mins
- c. Burn down chart will be updated against the ideal one and burn down velocity will be calculated for track the progress
- d. Scrum master will ask the impediments of each team member and note it down for his reference.
- e. It is a short and frequent meeting which will be facilitated by the Scrum master

Check the part of the use case diagram given below. Select the phrase which is not appropriate from the given list related to the diagram.

```
graph LR; Actor[Guest] --> UC[Register with form]; UC --> Register[Register]
```

The diagram shows a use case diagram with a Guest actor at the top left. A line connects the Guest actor to a rounded rectangle labeled "Register with form". From the "Register with form" rectangle, an arrow points to another rounded rectangle labeled "Register".

Answer: _____

The "register with form" use case will or will not override the behavior of "register" use case

The "register with form" use case may add or override the behavior of its parent

The child use case inherits the behavior and meaning of the parent use case

User can execute "Register with form" use case

The "register with form" use case inherits the behavior and meaning of the "register" use case

The "register with form" use case defines its own behavior and meaning of the parent use case

Quiz navigation

Finish attempt...
Time left 02:25:11
FINAL EXAMINATION

MULTIPLE CHOICE QUESTIONS

1	2	3	4	5	6	7	
8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47

QUESTION

ANSWER



Which of the following is delivered at the end of the Sprint?

Select one:

- a. The software design document
- b. An increment of software
- c. A Test case document containing for the current sprint
- d. Sketches of the design
- e. Wireframes designs for User Interface



12
Answered
out of
question

☰

Finish

Time

FINA

i

MUL

1

8

15

STRU

21

28

What is the difference between Join and Merge nodes?

Select one:

- a. Join should have a Decision node associated with it while Merge node should have Fork associated with it.
- b. All of the mentioned.
- c. Join considers the execution of all the parallel paths while Merge considers only the result of one alternative path.
- d. None of the mentioned
- e. Join represents the merging of multiple flows of control back into one whereas the Merge node represents the merging of control flows only two branch points back together.

Next page

NetExam
Sri Lanka Institute of Information Technology

An Online Train Reservation System asks number of seats to be reserved by user where user can reserve seats till its capacity will be full. Assume the maximum capacity is represented by MAX. If a tester wants to test the number of seats using **Boundary Value Analysis**, which of the following represent the most set of input test data values?

Select one:

- a. 0, 1, MAX, MAX + 1
- b. -1, 0, 1, 99, 100, 101
- c. 0, 1, 10, 100, MAX, MAX+1
- d. 0, 1, 2, MAX + 1, a very large number
- e. 1, 2, MAX -1, MAX, MAX + 1

[Next page](#)

NetExam
Sri Lanka Institute of Information Technology

Mr. Andrew is the tech lead of one of the prestigious IT companies and he is willing to apply agile and scrum to his projects. Therefore, he introduced agile manifesto to his team before starting the project. He mentioned several key facts under agile manifesto, they are,

Select one or more:

- a. Late requirements are acceptable with the scope change and sparse documents can be maintained for convenience
- b. Comprehensive documentation is delivered and working software is delivered at the latter part of the cycle.
- c. Individuals and their interactions are acceptable with the following processes and tools.
- d. Frequent customer interactions are recommended where the team can decide on the processes to adhere to.
- e. Customer negotiation can be encouraged, and SRS should be maintained and delivered frequently with important documents archive.

NetExamn
Sri Lanka Institute of Information Technology

Choose the correct answers.

Your company needs to develop a software application for a chemical plant. The users are non-technical people and do not have much computational skills as well. Your team has decided to use the Spiral model for this. But if your team members do not have any experience on that kind of project, it is better to use the V-shaped with prototype model.

Spiral Incremental V-shaped Prototype

Iterative Agile Spiral with prototype V-shaped with prototype

[Next page](#)

Quiz na

Finish attempt

Time left 0:27

FINAL EXAM

MULTIPLE C

1 2

8 9

15 16

STRUCTURE

21 22

28 29

35 36

Which statement is relevant when considering below two code segments?

```
void main()
{
    int row ,col;
    for (row=1; row<=5; row++)
    {
        for (col=1; col<=5; col++)
        {
            if(row==1||row==5|| col==1 || col==5)
                printf("%*c");
            else
                printf(" ");
        }
        printf("\n");
    }
}
```

```
void main()
{
    int row, col;
    for (row=1; row<=5; row++) //outerloop
    {
        for (col=1; col<=5; col++) //inner loop
        {
            if(row==1 || row==5 || col==1 || col==5)
                printf("*");
            else
                printf(" ");
        }
        printf("\n");
    }
}
```

(四)

(b)

Select one:

- a. Only (a) is following coding standards
 - b.
 - Both (a) and (b) follow the coding standards
 - c. (a) is having proper indentation while (b) is having proper commenting
 - d. Only (b) is following coding standards
 - e. Both (a) and (b) do not follow the coding standards

Question 23
Not yet answered
Marked out of 2.00

"SriBatik" is an innovative designing application for Batik industry which is to uplift self-employed people. As a government-related ICT group, you have been assigned to analyze the first phase's efficiency of development of "SriBatik" through burndown velocity. To proceed with, some of the data has been collected and given to you for reference.

Days	0	1	2	3	4	5	6	7	8	9	10
Actual remaining Effort	142	120.3	112.5	95.4	95.4	80.1	70.3	35.5	22.4	12.2	0

1. By end of 5th day, remaining workload should be man-hours and during On the 5th day, actual burndown velocity was man-hours per day

2. The lowest actual burn-down velocity was reported on day and it was man-hours per day

Quiz navigation
Finish attempt ...
Time left 1:08:53
FINAL EXAMINATION
1
MULTIPLE CHOICE
1 2 3
8 9 10 11
15 16 17 18
STRUCTURED QUESTIONS
21 22 23 24
28 29 30 31
35 36 37 38
42 43 44 45
49 50

 **NetExam**
Sri Lanka Institute of Information Technology

Question 50
Not yet answered
Marked out of 2.00

Learning management system is an integral part of eLearning design and facilitate unlimited access to eLearning materials, can track learners progress and can organize content in one location. Currently your company has been working on this project for a year and should be completed by November 2021. The system should be available on all platforms and 24x7 throughout the year. Allocation for the project for 2 years is 50 million rupees. How many constraints are there in this scenario?

Note: Enter only the numerical value

Answer:

NetExam
Sri Lanka Institute of Information Technology

Read the following scenarios and select correct Engineering type from the drop down lists.

1. Cam Bank has been using AS400 as its system since 1980. The bank is planning to expand the customer base and facilitate more functions. The methodology they could use is reverse Engineering . They got to know that they could use a tool to do most of the tasks provided that they know the used programming Language .

2. Sam Bank has planned to develop an online banking platform to accommodate most of the customer requirements. This development will be carried out using forward Engineering . Further Sam Bank wants to interface with Cam Bank to provide more facilities to the customers. This can be achieved by understanding the design Model through forward Engineering .

Question 27
Not yet answered
Marked out of 2.00
 Flag question

You have initiated a new project to forecast natural disasters such as floods, soil erosions and earthquakes, by analysing humidity of soil with other factors. Moreover, after launching this project it will send warnings to people in affected area so that they can protect themselves from injury and death. This can also reduce damage and economic losses as well. To carry this project several hardware equipments are needed such as accelerometers and GPS tracking devices. The client has allocated 10 million budget for equipment and other needs. This is a budget constraint. This project should be developed in python language with firebase database according to the rules and regulations of contract and this is a technological constraint.
Note: Give one word answers

Next page

Quiz navigation

Finish attempt...
Time left 0:57:34
FINAL EXAMINATION

MULTIPLE CHOICE QUESTIONS

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	
21	22	23	24	25	26	27
28	29	30	31	32	33	34
35	36	37	38	39	40	41

STRUCTURED QUESTIONS

21	22	23	24	25	26	27
28	29	30	31	32	33	34
35	36	37	38	39	40	41

NetExam
Sri Lanka Institute of Information Technology

Question 21
Not yet answered
Marked out of 2.00
Flag question

Show the correct and the incorrect statements using the drop-down list.

1. The nature of forward engineering is Prescriptive .

2. An example of backward engineering is research on used instruments .

3. Forward Engineering always takes less time than reverse engineering to develop an application .

4. Forward engineering requires high proficiency skill .

5. Reverse Engineering is a method of creating or making an application with the help of the given requirements .

Next page

Quiz navigation
Finish attempt...
Time left 1:21:56
FINAL EXAMINATION
1
MULTIPLE CHOICE QUESTIONS
1 2 3 4 5
8 9 10 11 12
15 16 17 18 19
STRUCTURED QUESTIONS
21 22 23 24 25
28 29 30 31 32
35 36 37 38 39 40

Which of these code snippet(s) is most reliable, according to coding standards?

Select one:

a. All of the mentioned

b.

```
for (int i = 0; i <= userNum; i++) {
    for (int j = 0; j < i; j++) { System.out.print(" ");
        System.out.println(i);
    }
}
```

c.

```
for (int i = 0; i <= userNum; i++) {
    for (int j = 0; j < i; j++) {
        System.out.print(" ");
        System.out.println(i);
    }
}
```

d.

```
for (int i = 0; i <= userNum; i++) {
    for (int j = 0; j < i; j++) {
        System.out.print(" ");
        System.out.println(i);
    }
}
```

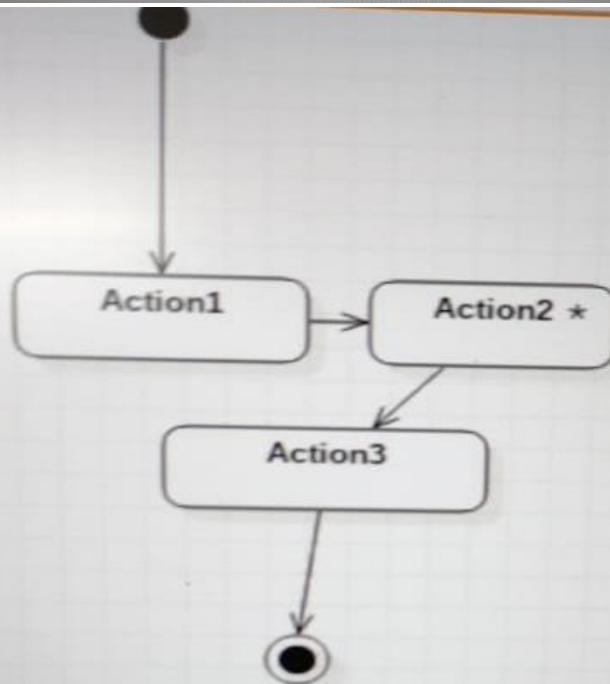
e.

```
for (int i = 0; i <= userNum; i++)
{
    for (int j = 0; j < i; j++)
    {
        System.out.print(" ");
    }
    System.out.println(i);
}
```

Systems modeling space may include:

Select one or more:

- a. None of the mentioned
- b. User stories
- c. Activity diagram
- d. CRC cards
- e. Use case diagram



Select one or more:

- a. The order of actions may be Action1 → Action2 → Action3
- b. This notation (*) is used to show loops.
- c. The Action3 does not occur until the iteration is finished.
- d. The Action1 does not occur until the iteration is finished.
- e. None of the mentioned is correct

Question 6
Not yet answered
Marked out of 1.00
[Flag question](#)

Which of the following are **TRUE** about Burndown Chart (BDC)?

Select one or more:

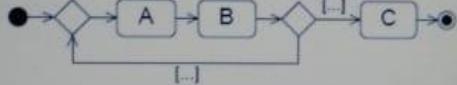
- a. None of the mentioned is true.
- b. BDC shows work done so far for the complete project backlog
- c. BDC shows the amount of remaining work for a sprint
- d. BDC is updated daily.
- e. BDC shows the whole project Progress

[Next p](#)

 **NetExam**
Sri Lanka Institute of Information Technology

Question 6
Not yet answered
Marked out of 1.00
[Flag question](#)

You are given the following activity diagram.
Which of the following action sequences are **possible** during one execution of the activity diagram?



```
graph LR; Start(( )) --> Diamond1{ }; Diamond1 --> A[A]; A --> B[B]; A --> B; B --> C[C]; C --> End(( ));
```

Select one or more:

- a. A->B->A->B->C
- b. A->B->C
- c. B->C->A
- d. None of the mentioned is correct
- e. A->C

9
answered
out of
question

NetExam
Sri Lanka Institute of Information Technology

Which of the following statements are **correct** about an Activity Diagram?

Select one or more:

- a. It consists of collection of actions connected by transitions.
- b. It shows the time taken for actions.
- c. It does not show the ownership of actions.
- d. It can have multiple Final/End nodes.
- e. It shows the data flow between functions

Moodle

← → X ⌂ | ⓘ | ⌂

NetExam
Sri Lanka Institute of Information Technology

Question 1
Not yet answered
Marked out of 1.00
Flag question

Which of the statements are **TRUE** about SCRUM?

Select one or more:

- a. SCRUM can be practiced using a software such as TargetProcess
- b. SCRUM and AGILE are both SDLCs
- c. SCRUM is good for developing mission critical systems
- d. SCRUM implements values and principles of AGILE
- e. SCRUM process helps to deliver quick products than traditional processes.

Next page

**Question 10**

Not yet answered

Marked out of
1.00

Flag question

Which of the following are **TRUE** regarding Verification and Validation?

Select one or more:

- a. Validation needs the executable product
- b. Validation reviews the test process
- c. Verification is generally completed before validation
- d. Verification and validation are not mandatory in software testing
- e. Verification is a static inspection

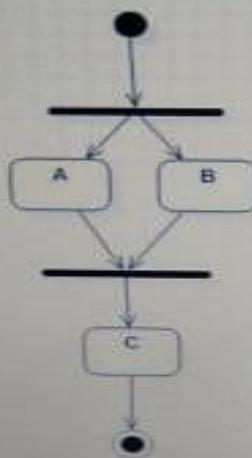
Question 12

Not yet answered

Marked out of
1.00

Flag question

According to the activity diagram given below, which of the executions are **possible**?



Select one or more:

- a. B followed by C
- b. B followed by A followed by C
- c. A followed by C
- d. C followed by B followed by A
- e. None of the mentioned executions

 Sri Lanka Institute of Information Technology

A QA Engineer says "It is difficult to fix errors at the latter stages of SDLC". Which of the following would be the reasons for this statement?

Select one or more:

- a. Continuous coding, testing have happened on top of the error.
- b. Latter stages have less developers to fix the errors.
- c. SDLC is not concerned about finding errors early.
- d. The error has affected many phases of SDLC.
- e. Last stages of the SDLC is mainly to work with the clients.

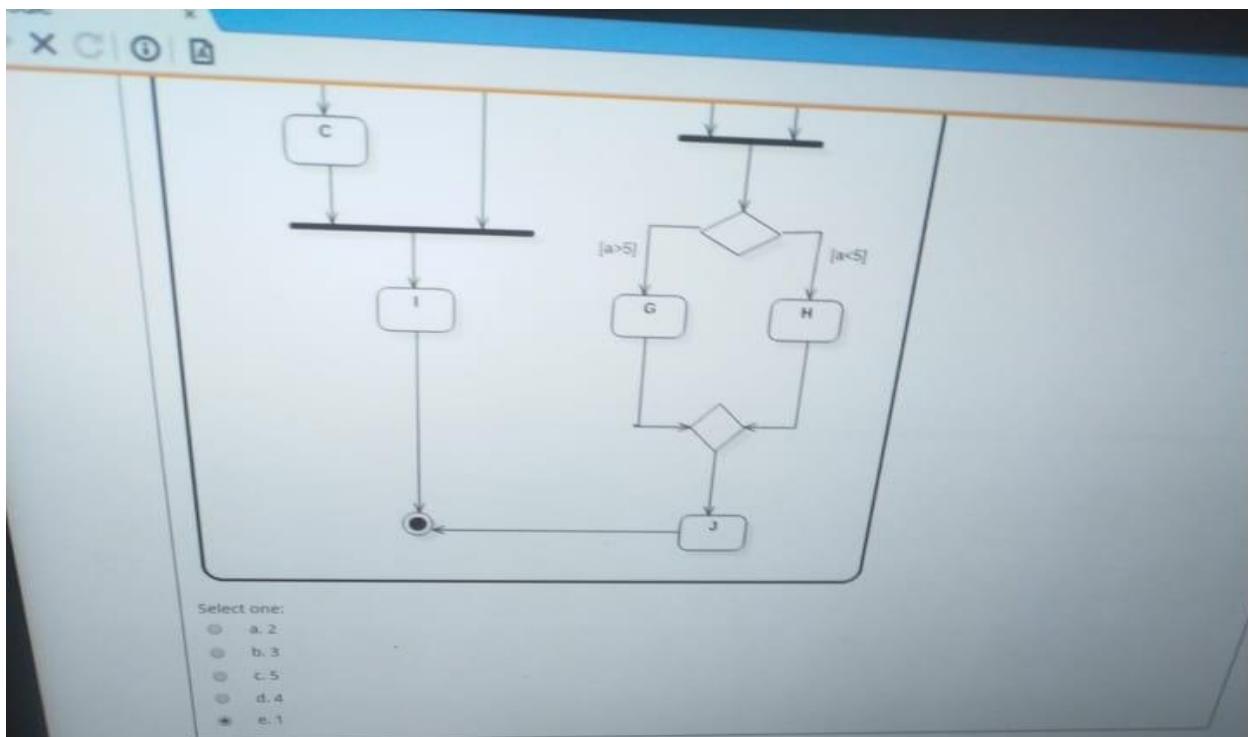
 NetExam
Sri Lanka Institute of Information Technology

Question 9
Not yet answered
Marked out of 1.00
[Flag question](#)

Verification is an important process in software testing. Which of the following are **not** verification activities?

Select one or more:

- a. Inspection
- b. Acceptance Testing
- c. Walkthrough
- d. System Testing
- e. Technical Review



NetExam
Sri Lanka Institute of Information Technology

Question 24
Not yet answered
Marked out of 2.00
[Flag question](#)

The following description is related to **Product Backlog**. Read the given description carefully and find **suitable choices from the answers**.

A product backlog may represent many weeks or months of work, which is much more than which can be completed in a single **Sprint**. To determine the most subset of product backlog items to build in, the scrum team performs **sprint planning** meeting. In this meeting, **product owner** explains which functions of product backlog should be developed. This subset of functions is called a **Sprint Backlog** and are represented by **User Stories**.

Decision Trees	project	Scrum Master	scrum planning	client
User Stories	product owner	Product Owner	Sprint Retrospection	Sprint review
sprint planning	year	Sprint	SRS	

Quiz navigation

Finish attempt ...
Time left 1:07:20
FINAL EXAMINATION

1	2	3	4
8	9	10	11
15	16	17	18

STRUCTURED QUESTIONS

21	22	23	24
28	29	30	31
35	36	37	38

[Next page](#)

NetExam
Sri Lanka Institute of Information Technology

on 22
It answered
ed out of
ag question

In an Examination a candidate has to score minimum of 24 marks in order to pass the exam.
The maximum that he can score is 40 marks.
Identify the Valid Equivalence Class and Boundary values in ascending order to test the case where the student passes the exam.

24 25 35 39 40

45 -5 -1 1 55 100 23 0 41

[Next page](#)

Sri Lanka Institute of Information Technology

The following question is based on the **Scrum process**. Read the given description carefully and Drag and Drop the suitable words from the given below.

Organizations are repeatedly delighting their customers by giving them what they really want, not just the features they might have specified on the first day when they knew the least about their true needs. They are also seeing an improved profit by delivering larger . more frequent releases through SCRUM.

Scrum's focus on delivering working, integrated , tested, release after each iteration leads to results being delivered fast. Scrum is also well suited to help organizations succeed in a complex world where they must quickly adapt based on the interconnected actions of competitors, customers, users, regulatory bodies , and other stakeholders.

release integrated repeatedly least larger isolated smaller
 regulatory bodies profit most

[Next page](#)

22 answered out of question

Sri Lanka Institute of Information Technology

"Flemingo" is a well-known company for developing student assistive management systems in the US. "Fancy" is one of the recognized projects in "Flemingo" which practices modern software methodologies in a very successful way. "Fancy" includes several sprints to gain milestones of the project. Analyze first sprint details below and answer subsequent questions.

Days	0	1	2	3	4	5	6	7	8	9	10
Actual Effort	190	180	160	140	113	94	94	94	58	25	0

Ideal Sprint the velocity of the first sprint was and highest actual sprint burndown velocity reported on the day which was

[Next page](#)

NetExam
Sri Lanka Institute of Information Technology

Question 23
Not yet answered
Marked out of 2.00

Fill in the table using Cons and pros of open source software.

Pros	Cons
Free to try before you buy	Increase Business Risk
Free Support	Avoids vendor Lock-In
Fewer bugs and faster fixes	Minimal Support Leverage
Reduced Competitive Advantage	

STRUCTURE

3
Answered
2 out of
Question

A user must enter a username when signing up for a Movie System. The username should contain only alpha characters. Which of the following is/are Invalid Equivalence Partition(s)?

Select one or more:

- a. User123
- b. UserMovie
- c. user_movie
- d. MovieUser
- e. USER

ANSWER

Moodle

Question 48
Not yet answered
Marked out of 2.00
Flag question

"Flemingo" is a well-known company for developing student assistive management systems in the US. "Fancy" is one of the recognized projects in "Flemingo" which practices modern software methodologies in a very successful way. "Fancy" includes several sprints to gain milestones of the project. Analyze first sprint details below and answer subsequent questions.

Days	0	1	2	3	4	5	6	7	8	9	10
Actual Effort	190	180	160	140	113	94	94	94	58	25	0

Ideal Sprint the velocity of the first sprint was and highest actual sprint burndown velocity reported on the day which was

Next page

Which of the following may be components of system design?

Select one or more:

- a. Subsystems
- b. None of the mentioned
- c. Use case scenarios
- d. Class diagram
- e. Activity diagram

Question 11
Not yet answered
Marked out of
1.00
 Flag question

Which of the following are TRUE about the below given Burndown Chart (BDC).



Select one or more:

- a. In this project, as the red line crosses the blue line, the team performance is better than the expected burn down velocity.
- b. BDC shows the expected completion date but not the actual completed date.
- c. In this project, the effort at the start of the project is closer to the expected burn down velocity.
- d. In this project, when the red line is parallel to the horizontal line then the actual team performance is very poor.
- e. In between 23rd September and 1st of October, burndown velocity is zero, and no progress is shown clearly.

Next page

Interfaces

Select one or more:

- a. can be television remote controllers
- b. are facilitators of communication between systems
- c. None of the mentioned
- d. can be CRC cards
- e. can be classes which do not implement the functions

Sri Lanka Institute of Information Technology

Which of the following statement(s) are TRUE?

Select one or more:

- a. In Agile model, test cases are designed after the development of the system.
- b. V-Model emphasizes more on testing than Waterfall Model.
- c. In Spiral Model testing may be done multiple times
- d. In V-Model, software development and testing are executed in parallel
- e. In Incremental model, testing is done only once.

**Question 44**

Not yet answered

Marked out of
2.00

Flag question

The following question is based on **Scrum**. Read the given description carefully and select the suitable words and **drag and drop to the blank given below**.

David is a team member of Ruby project at Pearson. They conduct and practice several modern software development methodologies. So, David participated in one meeting. In that meeting, the team discussed the product backlog and the sprint backlog. They modified the product backlog accordingly. Also, they re-prioritized the tasks according to the discussion. Some tasks are changed, and new ones are added according to current trends by the team. They spent almost four hours time box.

What is the meeting?**Who are the participants?**

Sprint Planning	Competitors
Product Owner	Product Owner and SCRUM team
Management	Product Owner and SCRUM team
SCRUM team and the Client	SCRUM Master
SCRUM Team	Daily SCRUM
Product Owner and the Client	Product Owner, Scrum team and client

It20639112 Perera E.T.N II2063

**Question 30**

Not yet answered

Marked out of
2.00

Flag question

Complete the blanks given below.

In the Spiral model, there are main phases available, and the second phase focuses onRisk analysis and the outcome of that phase would be risk mitigation plan**Quiz navigation**

Finish attempt ...

Time left: 0:48:52

FINAL EXAMINATION



MULTIPLE CHOICE QUESTIONS

1 2 3 4 5 6

7 8 9 10 11 12 13

14 15 16 17 18 19 20

21 22 23 24 25 26 27

28 29 30 31 32 33 34

35 36 37 38 39 40 41

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30

STRUCTURED QUESTION

21 22 23 24 25 26 27

28 29 30 31 32 33 34

Next page

NetExam
Sri Lanka Institute of Information Technology

Read the description given below to answer the questions.

"BeReady" is a private travel agency in Sri Lanka that provides information for clients about travel and tourism. They are designing an automated web-based system.

Guest can view the available tour packages. Any customer who wishes to proceed needs to register with the system by Facebook or Email registering. Only registered customers can request a quotation. For that customer must select a package from the given packages. Also needs to select the hotel and fill up the airline information. Later customer can view the requested quotation.

All the software development process activities are important for an acceptable high quality final product. When it comes to the implementation there is an interleaved activity with implementation which affects implementation than any other software development process activities. What is that activity?

Select one:

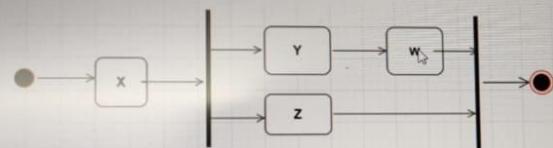
- a. Maintenance
- b. Requirements gathering
- c. Testing
- d. Design
- e. Feasibility study

Next page

Marked out of
2.00
Flag question

The correct action sequence for the diagram is
 If you select the action sequence X->Y->W, it
is not correct because .

Note: Drag and drop the answer



Technology

Spiral mode emphasizes on phases/quadrants in spiral and Choose...

Choose... risk mitigation plan incremental requirements planning risks risk analysis evaluation waterfall testing iterative mission critical development and test

and allow Choose... Choose... Choose... Choose... phase is Choose...

NetExam
Sri Lanka Institute of Information Technology

Question 24
Not yet answered
Marked out of 1.00
Flag question

You are given the following activity diagram. Write down **two action sequences** that are possible during one execution of this diagram? (e.g. ABC)

```

graph LR
    Start(( )) --> A[A]
    A --> B[B]
    A --> C[C]
    B --> End1((( )))
    C --> End2((( )))
  
```

Answer 01 = A->B

Answer 02 = A->C

it20263362 Alahakoon A.M.D.

NetExam
Sri Lanka Institute of Information Technology

Assume that you are the business analyst in your company and you need to clarify whether your client wants to develop an automated pharmacy system or not. So you interview your client and ask "Do you really want to build an automated pharmacy system or not." This type of requirement discovery is known as [] . After that you informed the clients decision to development team in your company. Development team members too want to interview client to find out what are the main requirements of automated pharmacy system, the development team schedules another meeting with client to get the main requirements. This type of requirement elicitation is known as [].

Note: Drag and drop answers

questionnaires ethnography open interviewing closed interviewing survey
observation

Next page

≡ Quiz navigation

Finish attempt ...
Time left 0:44:06
FINAL EXAMINATION

1	2	3	4
8	9	10	11
15	16	17	18

STRUCTURED QUESTIONS

21	22	23	24
----	----	----	----

Which of the following statement(s) are **TRUE** about integration testing?

Select one or more:

- a. It is a predetermined combination of tests
- b. It validates that the right system was built
- c. Testing is performed on a group of modules
- d. It ensures that data and control are passed properly between modules
- e. It tests the implementation of logic within a module