

# CS510

# Software

# Requirements

# and

# Specifications

Final Term Exam Screenshots

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"Librarian Updates Catalogue".  
From above statement, \_\_\_\_\_ is use case.

Select the correct option

<input type="checkbox"/>	Librarian
<input type="checkbox"/>	Catalogue
<input type="checkbox"/>	Update Catalogue
<input type="checkbox"/>	None of the given options

In context of UseCase diagram, association between an actor and usecase is represented by a/an:

Select the correct option

<input type="checkbox"/>	Oval
<input type="checkbox"/>	Line
<input type="checkbox"/>	Human like Symbol
<input type="checkbox"/>	None of the given options

Which of the following is/are NOT a requirement model?

Select the correct option

<input type="checkbox"/>	Use case diagram
<input type="checkbox"/>	Sequence diagram
<input type="checkbox"/>	Finite state machine
<input type="checkbox"/>	None of the given options

Which of the given is a type of contextual requirement elicitation technique?

Select the correct option

<input type="checkbox"/>	Laddering
<input type="checkbox"/>	Card Sorting
<input type="checkbox"/>	Interviews
<input type="checkbox"/>	Observation

An \_\_\_\_\_ dependency, is a generalization relationship denoting the inclusion of the behaviour described by another use case.

Select the correct option

<input type="checkbox"/>	Extend
<input type="checkbox"/>	Include
<input type="checkbox"/>	Solve
<input type="checkbox"/>	Verify

Use case diagram specifies:

Select the correct option

<input type="checkbox"/>	What tasks, a system performs
<input type="checkbox"/>	Who uses the system
<input type="checkbox"/>	Which user interacts with which use case
<input type="checkbox"/>	All of the given options

In use case diagram, a human like symbol represents:

Select the correct option

<input type="checkbox"/>	Use case
<input type="checkbox"/>	Actor
<input type="checkbox"/>	Model
<input checked="" type="checkbox"/>	None of the given options

Which of the following is not a proper use case name?

Select the correct option

<input type="checkbox"/>	BookOrder
<input type="checkbox"/>	CancelOrder
<input type="checkbox"/>	FlightNumber
<input type="checkbox"/>	TrackOrder

"Place order" is a:

Select the correct option

<input type="checkbox"/>	Use case
<input type="checkbox"/>	Actor
<input type="checkbox"/>	Relation
<input checked="" type="checkbox"/>	Model

Which of the following is a type of cognitive requirement elicitation technique?

Select the correct option

<input type="checkbox"/>	Laddering
<input type="checkbox"/>	Interviews
<input type="checkbox"/>	Observation
<input checked="" type="checkbox"/>	Brainstorming

Softgoal interdependencies can be captured with \_\_\_\_\_ contributions

Choices:

only positive

only negative

Positive or negative

Neither positive nor negative

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A state, in state machine modeling is represented by \_\_\_\_\_

Choices:

Circle

Triangle

Oval

Round-Cornered Rectangle

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In use case diagram, \_\_\_\_\_ is a generalization relationship denoting the inclusion of the behavior described by another use case.

**Choices:**

include dependency

Exclude dependency

Eliminate dependency

ignore dependency

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\_\_\_\_\_ is an organized set of activities, which transforms inputs to outputs.

Choices:

Error

Process

Threat

Bug

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\_\_\_\_\_ is a process of documenting the user's needs and constraints clearly and precisely.

**Choices:**

Requirement Failure

Requirement casualty

Requirement elimination

Requirement Specification

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According to IEEE/ANSI Standard 830-1993, specific requirements covering

\_\_\_\_\_.

**Choices:**

Functional requirements only

Non-function requirements only

Interface requirements only

Functional, Non-functional and Interface requirements

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In context of KOAS Object Model, which of the following represent(s) independent, active object(s)?

.....  
.....  
**Choices:** .....

Entities

.....  
.....  
Agents

.....  
.....  
Associations

.....  
.....  
Both entities and associations

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Which of the following is not one of the purpose of requirement traceability?

Choices:

Finding alternate design options

Finding cumulative system scope

Finding project plan

All of the given options

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Identify the TRUE statement(s) regarding goal oriented requirement engineering (GORE).

Choices:

Goals in GORE cover different types of concerns including functional and non functional.

GORE focuses only on “What” aspect.

GORE focuses only on “HOW aspect.

None of the given options.

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GORE is concerned with \_\_\_\_\_ of stakeholder purposes (“goals”) in order to derive functional and non-functional requirements.

Choices:

Acquisition

Modeling

Analysis

All of the given options

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Identify the TRUE statement(s).

**Choices:**

A requirement is a particular way of achieving a goal.

Goals are at a higher level than requirements

Goals are more stable than corresponding requirements

All of the given options

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Which of the following is/are not KAOS model(s)?

Choices:

Usecase model

State machine

Activity diagram

All of the given options

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After all requirements and expectations are assigned to a responsible agent, a diagram is generated for each agent, listing all requirements and expectations that he has been assigned, the diagram is called:

Choices:

Responsibility diagram

System diagram

Goal diagram

Object diagram

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In context of KAOS operation model, operations are represented as:

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**Choices:**

Ovals

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Rectangles

---

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Parallelogram

---

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None of the given options

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In context of KAOS operation model, through an operation on an object, we can:

Choices:

Create objects

Trigger object state transitions

Activate other operations

All of the given options

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In context of KAOS operation model, behavior is expressed in terms of \_\_\_\_\_ performed by agents.

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**Choices:**

Operations

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Attributes

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Properties

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All of the given options

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\_\_\_\_\_ is an informal discussion where free expression of ideas is given to every participant for a new kind of system to be developed.

Choices:

Brainstorming

Questionnaire

Close Interview

All of the given options

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The techniques that collect requirements in context of the user are called:

**Choices:**

Contextual techniques

Conventional techniques

Hybrid techniques

Domain techniques

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Which of the following is NOT requirements elicitation technique?

Choices:

Interview

Questionnaire

Brainstorming

Normalization

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This Testing Technique examines the basic program structure and it derives the test data from the program logic; Ensuring that all statements and conditions executed at least once. It is called as

**Choices:**

Black box Testing

Block box Testing

White box Testing

Grey Box Testing

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Which of the following is/are usability evaluation method(s)?

Choices:

Testing

Inspection

Inquiry

All of the given options

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Which of the following is NOT one of the metrics to measure usability?

Choices:

Time to complete a task

Fraction of task completed

Number of errors

Degree of Coupling

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“The extent to which a product can be used by specified users to achieve specified goals with effectiveness, efficiency and satisfaction” is called:

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**Choices:**

Usability

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Interoperability

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Reliability

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Maintainability

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Which of the following is requirement prioritization technique?

Choices:

Value oriented prioritization

Design oriented prioritization

Architecture oriented prioritization

None of the given options

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Identify INCORRECT statement(s) about agile:

Choices:

Agile concentrates to have working applications

Agile supports large documentation

Agile assures to adopt and respond frequently over change request

All of the given options

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Agile focus and prefer more on:

.....  
.....  
.....  
**Choices:** .....

Individual capabilities

.....  
.....  
Tools

.....  
.....  
Techniques

.....  
.....  
Processes

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Which of the following is/are valid reason(s) for requirements to be changed?

Choices:

Lack of domain knowledge at start

Change in customer prioritization

Change in platform or environment

All of the given options

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Which of the following is not part of “General Description” section of Software requirement specification template (standard 830-1993 by IEEE)?

**Choices:**

Product perspective

Product functions

User characteristics

Scope of the product

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Requirements Document consists of all of the given except \_\_\_\_\_.

**Choices:**

Services provided by the system

Functions provided by the system

Constraint on the system

Project schedule

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“Requirements Document” is used to communicate requirements to \_\_\_\_\_

Choices:

Customers

Engineers

Managers

Customers, engineers and managers

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If a software application fulfills its specifications but deviates from users expectations, then it means that software is verified but not \_\_\_\_\_.

**Choices:**

Traced

Checked

Validated

Corrected

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The processes in which we check a product against its specifications, is called \_\_\_\_\_.

Choices:

Verification

Validation

Investigation

Inspection

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Links requirements to design and implementation components.

**Choices:**

Backward-from traceability

Forward-from traceability

Backward-to traceability

Forward-to traceability

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“Requirements Traceability” refers to ability to describe and follow the life of a requirement, in \_\_\_\_\_ direction.

Choices:

forward

backward

both a forward and backward

neither forward nor backward

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SRS is prepared in \_\_\_\_\_ phase of SDLC

Choices:

Design phase

Testing Phase

Requirement Phase

Evaluation Phase

Operationalizing softgoal means:

Select the correct option

- |                                  |   |
|----------------------------------|---|
| <input type="radio"/>            | Finding Non functional softgoals                                      |
| <input checked="" type="radio"/> | Finding lower-level (design) techniques for satisficing NFR softgoals |
| <input type="radio"/>            | Finding the design process to implement requirements                  |
| <input type="radio"/>            | None of the given options   |

Entities are independent because:

Select the correct option

- They don't have methods
- They can't perform operations
- Their descriptions do not need to refer to other objects of the model
- They don't have any attributes

In context of NFR framework, which of the following is NOT one of the framework activities:

Select the correct option

- Capturing NFRs for the domain of interest
- Decomposing NFRs
- Identifying possible NFR operationalizations
- Extracting functional requirements from Non functional requirements

Associations are \_\_\_\_\_ objects:

Behaviors are expressed in terms of \_\_\_\_\_ performed by agents.

Select the correct option

<input type="radio"/>	Independent and active
<input type="radio"/>	Independent and passive
<input type="radio"/>	Dependent and active
<input checked="" type="radio"/>	Dependent and passive

Select the correct option

<input type="radio"/>	Associations
<input type="radio"/>	Goals
<input checked="" type="radio"/>	Operations
<input type="radio"/>	Attributes

Softgoals are goals that:

Select the correct option

<input checked="" type="radio"/>	Do not have a clear-cut criterion for their satisfaction
<input type="radio"/>	Do have a clear-cut criterion for their satisfaction
<input type="radio"/>	Are nothing but implementations of requirements
<input type="radio"/>	Are nothing but implementations of different design choices

A \_\_\_\_\_ describes for each agent, the requirements and expectations that he is responsible for.

**Select the correct option**

<input checked="" type="radio"/>	Responsibility diagram
<input type="radio"/>	Goal Model
<input type="radio"/>	Softgoal Interdependency Graph
<input type="radio"/>	Object Model

Softgoal Interdependency Graph represents

To be complete, operation model must specify:

**Select the correct option**

<input type="radio"/>	Softgoals
<input type="radio"/>	Softgoal refinements (AND/OR)
<input type="radio"/>	Softgoal contributions (Positive/Negative)
<input checked="" type="radio"/>	All of the given options

**Select the correct option**

<input checked="" type="radio"/>	The agents who perform the operations
<input type="radio"/>	The input and output data for each operation
<input type="radio"/>	When operations are to be executed
<input type="radio"/>	All of the given options

In context of Usability Evaluation, mention any four Metrics used to measure Usability.

Write down any four strengths of Extreme Programming and Scrum.

What are the different types of KAOS Models? Write their names.

Suppose you have a scheduler which schedules different tasks. As soon as scheduler receives a new task T, it schedules this task based on specific algorithm. For this case, draw state machine diagram including all states and transitions.

Requirements cannot be managed properly if requirements traceability is not implemented. You are required to describe the key classification of requirement traceability.

E = Number of Edges = 8

N = Number of Nodes = 6

Using the above measures, calculate the cyclomatic complexity,  $V(G)$  of Graph G.

In context of KAOS operation model, mention the symbols for following:

1) Operations

2) Events

Mention at least one difference between Goal Oriented Requirement Engineering and Traditional Requirement Engineering.

Describe role of following terms in State Machine Modeling.

a) Condition

b) Attribute

c) Action

What are the key classifications of requirement traceability?

\_\_\_\_\_ links requirements with other requirements which are, in some way, dependent on them.

Choices:

Requirements-requirements traceability

Requirements-rationale traceability

Requirements-sources traceability

Requirements-error traceability

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This type of testing is not concerned with how the inputs are transformed into outputs. As the system's internal implementation details are not visible to the tester. It is called as

Choices:

Black box Testing

White box Testing

Open box testing

Blue block testing

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Which of the following Software development approaches focuses on heavy documentation?

Choices:

Scrum

RUP

Extreme Programming

Both Extreme Programming and Scrum

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Passive objects are the ones that:

Choices:

Always cause errors

Don't have name

Can't perform operations

Can always perform operations

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Which of the following is not a symbol used in KAOS goal model?

Choices:

Parallelogram

Arrow

Human like symbol

Circle

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