Started on	Sunday, 30 September 2018, 7:54 PM
State	Finished
Completed on	Sunday, 30 September 2018, 8:56 PM
Time taken	1 hour 2 mins
Marks	28.00/35.00
Grade	**8.00** out of 10.00 (**80**%)

Question **1**

Correct   Mark 1.00 out of 1.00

Use-case diagrams are simply a graphical overview of the set of use cases contained in the system. They illustrate the main functional requirement of a system and the actors that interact with the system.
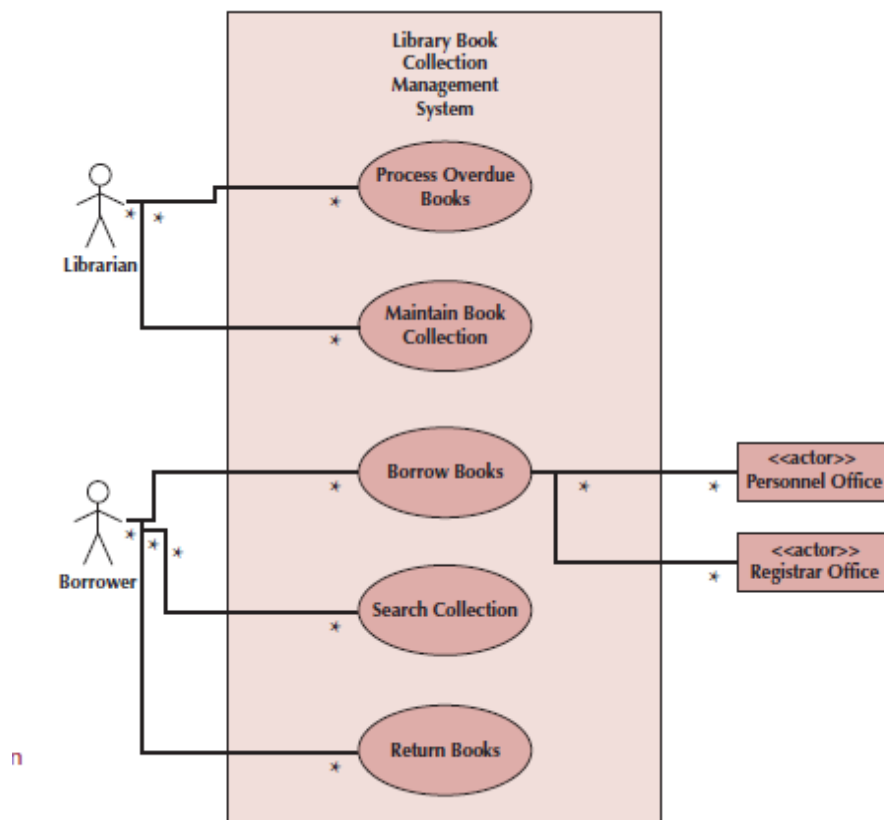
Select one:

- ⦿ True ✔
- ○ False

The correct answer is 'True'.

Question 2

Correct   Mark 1.00 out of 1.00

The following statements are true according to the use case diagram below, except...

Select one:

- a. There are 4 actors in participating in the system

- b. Personnel office and registrar office are secondary actors that participate in borrow book use case

- c. A borrower can only borrow a book if and only if personnel office and registrar interacting with the system

- d. Librarian can maintain many book collection

- ○ e. Borrower can process overdue books ✓

The correct answer is: Borrower can process overdue books

Question 3

Incorrect   Mark 0.00 out of 1.00

Use cases represent functional and non-functional requirements.

Select one:

○ True ❌

○ False

The correct answer is 'False'.

Question 4

Correct   Mark 1.00 out of 1.00

Below are the guidelines for writing effective use case description, except:

Select one:

○ a. Make sure it is clear who the initiator of the step is

● b. Write each step at a different level of abstraction ✓

○ c. Ensure the use case has a sensible set of steps

○ d. Repeating instructions after the set of steps to be repeated

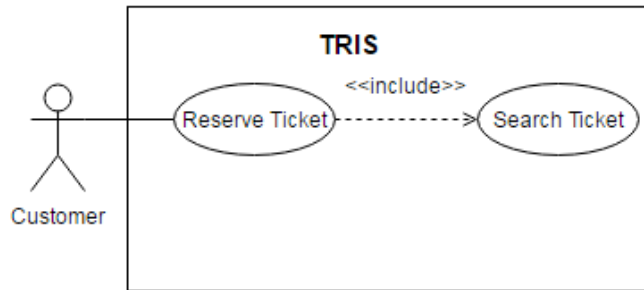○ e. Write the steps from the perspective of the independent observer

The correct answer is: Write each step at a different level of abstraction

Question 5

Incorrect   Mark 0.00 out of 1.00

Which one is depicted by the use case diagram of the "Ticket Reservation Information System (TRIS)" below...

Select one:

- ○ a. The Customer may reserve ticket and search ticket only without relationship
- ○ b. The Customer must search a ticket when they want to reserve it
- ● c. The Customer may search a ticket when they want to reserve it ✗
- ○ d. The Customer may reserve a ticket directly without searching for it
- ○ e. The Customer may search a ticket and reserve it at the same time

The correct answer is: The Customer must search a ticket when they want to reserve it

Question 6

Correct   Mark 1.00 out of 1.00

Business process modeling is used to help programmers to make a good system through requirement gathering towards users' needs. Moreover, business process modeling is an object-oriented perspective that tends to reinforce a functional decomposition mindset.

Select one:

- ○ True
- ● False ✓

The correct answer is 'False'.

Question 7

Correct   Mark 1.00 out of 1.00

The subject boundary is drawn based on the scope of the system.

Select one:

- ⦿ True ✓
- ◯ False

The correct answer is 'True'.

Question 8

Correct   Mark 1.00 out of 1.00

Walkthrough is an automatic approach that supports verifying and validating the evolving models.

Select one:

- ◯ True
- ⦿ False ✓

The correct answer is 'False'.

Question 9

Correct   Mark 1.00 out of 1.00

An actor must be specific user that interacts with the system.
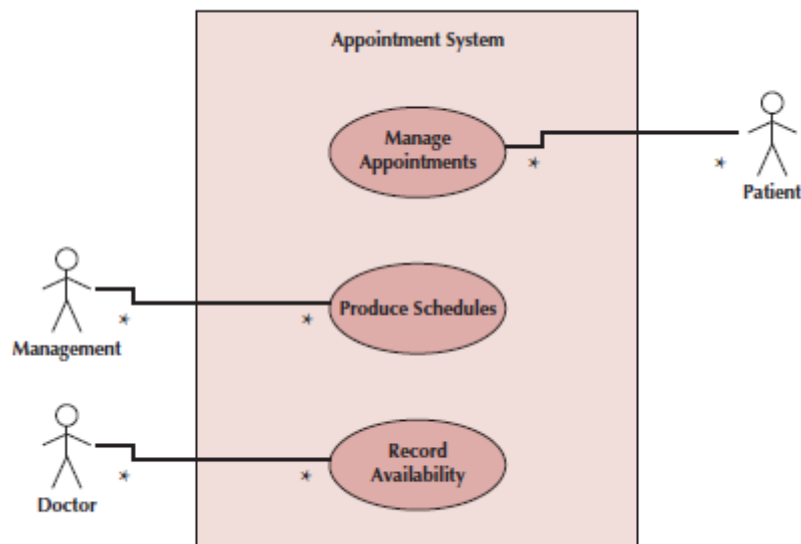
Select one:

- ◯ True
- ⦿ False ✓

The correct answer is 'False'.

Which statement that is not true about use case diagram below?

Appointment System
- Manage Appointments
- Produce Schedules
- Record Availability

Patient
Management
Doctor

Select one:

- a. A patient can reschedule appointments
- b. A management employee can produce schedule
- ● c. A doctor can make an appointment ✓
- d. A management employee can produce many schedule
- e. A doctor can record availability

The correct answer is: A doctor can make an appointment

Question 11

Correct   Mark 1.00 out of 1.00

Below are elements of an activity diagram: 1) Subject boundary 2) Action 3) Actor 4) Control flow 5) Object flow Which one is true for elements of activity diagram?

Select one:

- ○ a. Statement 1, 2, 4 are false
- ○ b. Statement 1, 3, 4 are true
- ○ c. Statement 1, 2, 3 are true
- ◉ d. Statement 2, 4, 5 are true ✓
- ○ e. Statement 1, 3, 4 are false

The correct answer is: Statement 2, 4, 5 are true

Question 12

Correct   Mark 1.00 out of 1.00

The number and granularity of use cases influence the time and difficulty to understand, maintain, and manage the requirements.

Select one:

- ◉ True ✓
- ○ False

The correct answer is 'True'.

Question 13

Incorrect   Mark 0.00 out of 1.00

The customers who had finished GoJek transaction must give a rating for the driver. The correct relationship between the use case "Give Rating" and "Make a Transaction" based on the requirements above is ...

Select one:

○ a. Generalization

○ b. Specialization

○ c. No relation

○ d. Include

◉ e. Extend ✘

The correct answer is: Include

Question 14

Correct   Mark 1.00 out of 1.00

A subject boundary can be used to separate a software system from its environment, a subsystem from other subsystems within the software system, or an individual process in a software system. They also can be used to separate an information system, including both software and internal actors, from its environment.

Select one:

◉ True ✔

○ False

The correct answer is 'True'.

Question 15

Incorrect   Mark 0.00 out of 1.00

Stakeholders list in in the use case description are the primary actors and supporting actors.

Select one:

⦿ True ✗

◯ False

The correct answer is 'False'.

Question 16

Correct   Mark 1.00 out of 1.00

The followings are the guidelines on defining a use-case according to elementary business process, except:

Select one:

◯ a. Use case cannot be small step

◯ b. Use cases should have business value

◯ c. Use cases should be a goal of related actors

⦿ d. Use cases should take days and multiple sessions to be done ✓

◯ e. If there is a subtask or extension that may be repeated in several base use cases, it is possible to separate this into its own use case

The correct answer is: Use cases should take days and multiple sessions to be done

Question 17

Correct   Mark 1.00 out of 1.00

The alternative or exceptional flows in use case description are ones that do happen but are not considered to be norm.

Select one:

⦿ True ✓

◯ False

The correct answer is 'True'.

Question 18

Incorrect   Mark 0.00 out of 1.00

Which statement that is not true about use case relationship?

Select one:

- ○ a. An association relationship links an actor with the use case(s) with which it interacts ✘

- ○ b. An include relationship represents the inclusion of the functionality of one use case within another

- ○ c. An extend relationship represents the extension of the use case to include optional behavior

- ○ d. A generalization relationship represents a generalized use case to a more specialized one

- ○ e. An include relationship has an arrow drawn from the base use case to the included use case

The correct answer is: A generalization relationship represents a generalized use case to a more specialized one

Question 19

Correct   Mark 1.00 out of 1.00

An overview use case is used to enable the analyst and user to agree on a high-level overview of the requirements. Typically, overview use cases are created very early in the process of understanding the system requirements, and they document only basic information about the use case.

Select one:

- ○ True ✔

- ○ False

The correct answer is 'True'.

Question 20   Correct   Mark 1.00 out of 1.00

Which one the following statements is not true about control nodes types?

Select one:

○ a. Final-activity nodes stop the process being modelled, regardless of the completeness of the model

○ b. Join nodes brings back together the separate parallel or concurrent flow into a single flow

○ c. Merge nodes is used to bring back together multiple mutually exclusive paths that have been split based on an earlier decision

◉ d. Decision nodes is used to split the behavior of the business process into multiple parallel or concurrent flows ✓

○ e. No answer

The correct answer is: Decision nodes is used to split the behavior of the business process into multiple parallel or concurrent flows

Question 21   Correct   Mark 1.00 out of 1.00

The normal flow of events in use case description includes only steps that normally are executed in a use case. And the subflow of events is part of the normal flow.

Select one:

◉ True ✓

○ False

The correct answer is 'True'.

Question 22

Correct   Mark 1.00 out of 1.00

Use-case diagrams can be viewed as sophisticated data flow diagrams and include notation that addresses the modeling of parallel, concurrent activities and complex decision processes.

Select one:

○ True

◉ False ✓

The correct answer is 'False'.

Question 23

Correct   Mark 1.00 out of 1.00

When creating use-case descriptions, the SVDPI (subject–verb–direct object and, optionally, preposition–indirect object) sentences should be used whenever possible in all steps.

Select one:

◉ True ✓

○ False

The correct answer is 'True'.

Question 24

Correct   Mark 1.00 out of 1.00

Activity diagrams and use cases are physical models—models that describe the business domain's activities without suggesting how they are conducted.

Select one:

○ True

◉ False ✓

The correct answer is 'False'.

Question 25

Correct   Mark 1.00 out of 1.00

In creating activity diagram, we need to identify the object flows and nodes necessary to support ...

Select one:

- ○ a. Business process
- ○ b. System requirements
- ○ c. User's needs
- ◉ d. The logic of the business process ✓
- ○ e. The system

The correct answer is: The logic of the business process

Question 26

Incorrect   Mark 0.00 out of 1.00

The following are steps involved in making use case descriptions: 1) Create overview description 2) Check the normal flow events 3) Describe the normal flow events 4) Repeat until done 5) Identify alternative or exceptional flow 6) Review the use case description 7) Choose a use case The right steps to create the use case descriptions is...

Select one:

- ◉ a. 7 - 1 - 3 - 2 - 5 - 6 – 4 ✗
- ○ b. 7 - 1 - 2 - 3 - 6 - 5 – 4
- ○ c. 1 - 7 - 2 - 3 - 5 - 6 – 4
- ○ d. 1 - 7 - 3 - 2 - 6 - 5 – 4
- ○ e. 7 - 4 - 2 - 3 - 6 - 5 – 1

The correct answer is: 7 - 4 - 2 - 3 - 6 - 5 – 1

Question 27

Correct   Mark 1.00 out of 1.00

Which of the following is a characteristic of a use case?

Select one:

- ○ a. Can be extended by other use case
- ○ b. Can include another use case
- ○ c. Is labeled with a descriptive verb-noun phrase
- ○ d. Represents a major process that the system will perform
- ◉ e. All correct ✓

The correct answer is: All correct

Question 28

Correct   Mark 1.00 out of 1.00

A subject boundary is a box that defines the scope of the system and clearly delineates what parts of the diagram are external or internal to it.

Select one:

- ◉ True ✓
- ○ False

The correct answer is 'True'.

Question 29

Correct   Mark 1.00 out of 1.00

Two types of flows in an activity diagram are:

Select one:

- ○ a. Object flows and final flows
- ○ b. Individual flows and final flows
- ○ c. Decision flows and object flows
- ○ d. Control flows and system flows
- ◉ e. Object flows and Control flows ✓

The correct answer is: Object flows and Control flows

Question 30

Correct   Mark 1.00 out of 1.00

To determine importance of use cases, system analyst can create use-case ranking and evaluation matrix and also use-case dependency diagram.
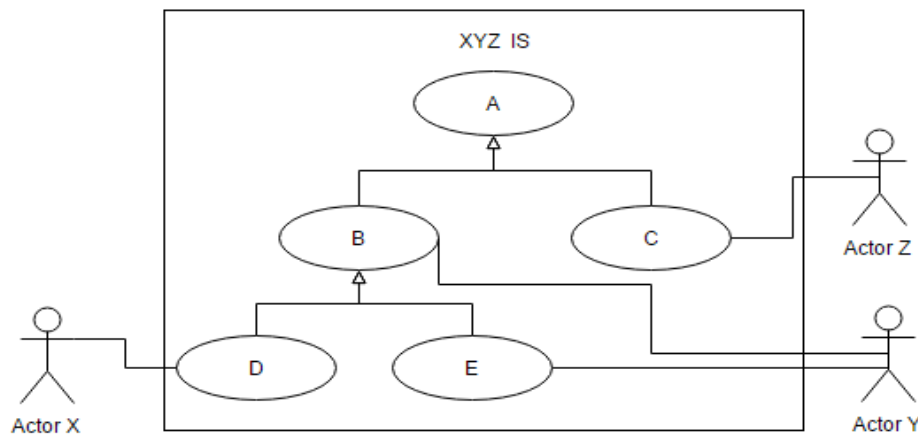
Select one:

- ◉ True ✓
- ○ False

The correct answer is 'True'.

Question 31 Incorrect Mark 0.00 out of 1.00

Which one is not true about the use case diagram of the "XYZ Information System" below?

Select one:

- ◉   a. D and E inherits B and A ✗
- ○   b. E and D may have the similar functionality
- ○   c. B and C may have the similar functionality
- ○   d. A generalized from B and C
- ○   e. B generalized from D and E

The correct answer is: A generalized from B and C

Question 32 Correct Mark 1.00 out of 1.00

Process model depicts how a business system operates. They illustrate the processes or activities that are performed and how objects (data) move among them, and typically cut across functional departments.

Select one:
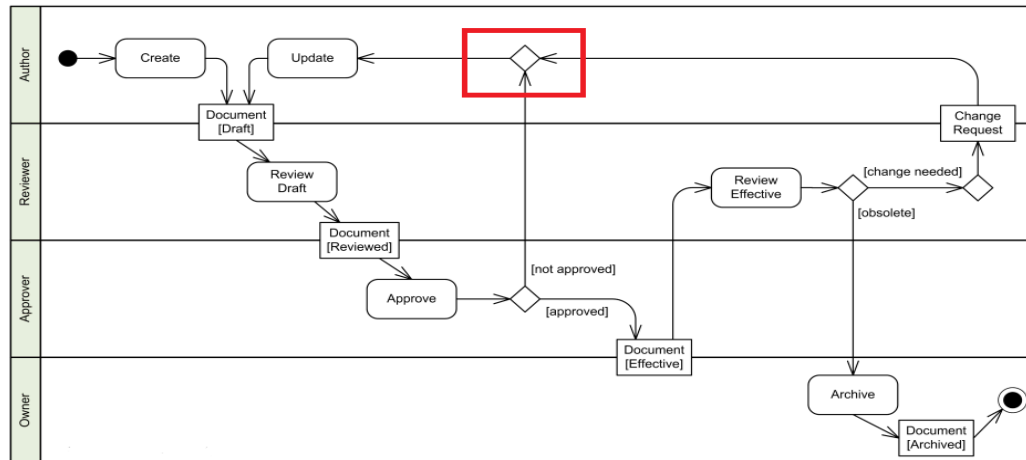
- ◉   True ✓
- ○   False

The correct answer is 'True'.

Question 33

Correct   Mark 1.00 out of 1.00

Based on the picture below, what does the red rectangle mean?

Select one:

- ○ a. Change Request and Not Approved is done parallelly

- ○ b. Update is done if document is not approved by approval and needs a change

- ○ c. The update can be done independently without others activities.

- ○ d. That is a wrong notation

- ◉ e. Update is done if document is not approved by approval or needs a change ✔

The correct answer is: Update is done if document is not approved by approval or needs a change

Question 34

Correct   Mark 1.00 out of 1.00

Below are use-case diagram elements, except:

Select one:

- ○ a. Use cases

- ○ b. Subject boundaries

- ○ c. Actors

- ○ d. Set of relationships among actors, actors and use cases, and use cases
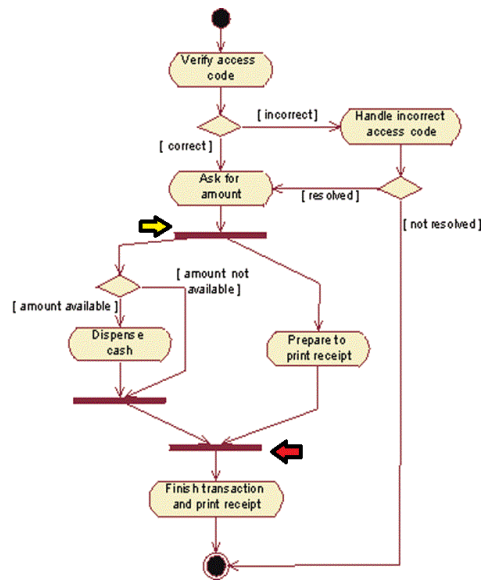
- ◉ e. Decisions ✔

The correct answer is: Decisions

Question 35   Correct   Mark 1.00 out of 1.00

What are the objects pointed by the yellow and red arrow in this activity diagram?

Select one:

○   a. Decision node is used to split the parallel activity and Merge node is used to bring back together different decision paths

○   b. Fork node is used to split the parallel activity and Decision node is used to represent a test condition to ensure that the control flow

○   c. Decision node is used to represent a test condition to ensure that the control flow and Merge node is used to bring back together different decision paths

○   d. Merge node is used to bring back together different decision paths and Join node is used to bring back together a set of parallel activities

◉   e. Fork node is used to split the parallel activity and Join node is used to bring back together a set of parallel activities ✓

The correct answer is: Fork node is used to split the parallel activity and Join node is used to bring back together a set of parallel activities