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**Started on** Thursday, 16 December 2021, 5:13 PM

**State** Finished

**Completed on** Thursday, 16 December 2021, 5:17 PM

**Time taken** 4 mins 20 secs

**Grade** 5.37 out of 7.00 (77%)

Question **1**

Correct

Mark 1.00 out of 1.00

The following are core principles of the class activity:

Select one or more:

- ☐ a. Describe the classes in the program
- ☒ b. Classify objects in the problem domain ✓
- ☐ c. Classify objects in the application domain
- ☒ d. Make an event table ✓

The correct answers are: Make an event table, Classify objects in the problem domain

Question **2**

Partially correct

Mark 0.60 out of 1.00

A system to be used to control train traffic at Aalborg Railway Station: Which of the following are events?

Select one or more:

- ☐ a. A passenger exiting the train
- ☒ b. A train passing a rail sensor ✓
- ☐ c. A ticket machine issues a ticket
- ☒ d. A train passing a signal ✓
- ☐ e. A passenger entering the train
- ☐ f. A train crossing the rail bridge across the fjord
- ☒ g. A train stopping at Aalborg Nord ✓
- ☐ h. A train shifting track
- ☐ i. A conductor checks a ticket

The correct answers are: A train passing a signal, A train passing a rail sensor, A train shifting track, A train crossing the rail bridge across the fjord, A train stopping at Aalborg Nord



## Question 3

Correct

Mark 1.00 out of 1.00

An object in the problem domain is defined as an entity with:

Select one or more:

- ☒ a. State ✓
- ☒ b. Identity ✓
- ☐ c. Pattern
- ☐ d. Critical mass
- ☒ e. Behavior ✓

The correct answers are: Identity, State, Behavior

## Question 4

Partially correct

Mark 0.10 out of 1.00

A system to be used to control train traffic at Aalborg Railway Station: Which statements are correct?

Select one or more:

- ☒ a. A signal post and its signal can be part of both PD and AD, but it depends on which functions we require ✓
- ☐ b. A signal post and its signal cannot be part of PD and AD at the same time
- ☒ c. A train sensor on the rails is part of the AD ✗
- ☒ d. A signal post and its signal can be part of the PD ✓
- ☒ e. A train sensor on the rails is not an object and neither part of the PD nor part of the AD because it is just an input device ✓
- ☐ f. A signal post and its signal is part of the AD
- ☐ g. A train sensor on the rails may be part of the PD

The correct answers are: A signal post and its signal is part of the AD, A signal post and its signal can be part of the PD, A signal post and its signal can be part of both PD and AD, but it depends on which functions we require, A train sensor on the rails may be part of the PD, A train sensor on the rails is not an object and neither part of the PD nor part of the AD because it is just an input device



## Question 5

Partially correct

Mark 0.67 out of 1.00

What are the results of the problem-domain analysis?

Select one or more:

- ☐ a. A component architecture
- ☐ b. An actor table
- ☐ c. An event table
- ☐ d. State-chart diagrams describing use cases
- ☒ e. State-chart diagrams describing the behavior of objects in classes ✓
- ☒ f. A class diagram describing classes and structure ✓

The correct answers are: A class diagram describing classes and structure, State-chart diagrams describing the behavior of objects in classes, An event table

## Question 6

Correct

Mark 1.00 out of 1.00

An event in problem domain analysis is:

Select one or more:

- ☐ a. An object
- ☐ b. A mechanism
- ☒ c. An incident involving one or more objects ✓
- ☒ d. Atomic ✓
- ☒ e. Instantaneous ✓

The correct answers are: Atomic, An incident involving one or more objects, Instantaneous



## Question 7

Correct

Mark 1.00 out of 1.00

The system's model of the problem domain

Select one or more:

- ☒ a. Provides information to users in the application domain about the problem domain ✓
- ☒ b. Represents the state of the problem domain ✓
- ☐ c. Contains a list of all the users of the system
- ☐ d. Keeps tracks of user interface problems

The correct answers are: Represents the state of the problem domain, Provides information to users in the application domain about the problem domain

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