QB3 Solution

[A, 7 points] Multiple Choice:

[A1] UML Use Case diagrams are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ diagrams. (b)

(a) structural (b) behavioral

[A2] UML Class diagrams are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ diagrams. (a)

(a) structural (b) behavioral

[A3] UML Sequence diagrams are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ diagrams. (b)

(a) structural (b) behavioral

[A4] UML State Transition diagrams are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ diagrams. (b)

(a) structural (b) behavioral

[A5] UML Activity diagrams are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ diagrams. (b)

(a) structural (b) behavioral

[A6] In the Ball and Socket notation in UML, the Socket denotes a \_\_\_\_\_\_\_\_\_\_\_\_ interface. (a)

(a) Required (b)Provided

[A7] In the Ball and Socket notation in UML, the Ball denotes a \_\_\_\_\_\_\_\_\_\_\_\_ interface. (b)

(a) Required (b)Provided

[B, 4 points] Fill-in

[B1] Partitions in UML Activity Diagrams are also known as \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_.

(swim lanes)

[B2] Visibility of attributes and methods in UML class diagrams is denoted by the following symbols:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

(+ public, - private , # protected, ~ package visibility)

[B3] An Association Class often is needed in UML when dealing with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_relationships.

(many-to-many)

[B4] Sequence expressions for the order of actions are needed in a UML \_\_\_\_\_\_\_\_\_\_\_ diagram.

(collaboration or communication diagram)

[C, 6 points] True/False

[C1] A Package Diagram in UML can be used to group use cases. (T)

[C2] Use cases can be related via inheritance. (T)

[C3] Activity diagrams can be used to give details of use cases. (T)

[C4] Activity diagrams cannot be used to show parallel activities. (F)

[C5] Looping and alternation cannot be shown in a UML Sequence Diagram. (F)

[C6] Scripts for Sequence Diagrams are allowed by UML. (F)