

# 60-322-01 Sample Questions for Exams

## 1. (*CONCEPTS*)

Answer each of the questions by making the correct selection with a check mark.

- 1) Object orientation in object-oriented software development refers to one of the following concepts, or Ⓔ if none of them:
  - Ⓐ It is about placing objects in the right orientation for alignment in diagrams.
  - Ⓑ It is about identifying and grouping objects with the same orientation in the world.
  - Ⓒ It is about defining software classes for objects with the same orientation in the world.
  - Ⓓ It is about viewing and modeling the world as a set of interacting and interrelated objects.
- 2) Select one of the following descriptions if that description does not apply to the concept of **class**. Otherwise, select Ⓔ.
  - Ⓐ A class is a uniquely identified abstraction;
  - Ⓑ In a class, a set of logically related instances share the same or similar characteristics;
  - Ⓒ An attribute of a class is a named property of the class;
  - Ⓓ An operation of a class is the implementation of a service provided by the class.
- 3) The relationship between **software process** and **software process model** is described by one of the following statements, or Ⓔ if none of them:
  - Ⓐ Both software process and process model are abstractions of software development activities.
  - Ⓑ The former is an abstraction of the latter.
  - Ⓒ While the former consists of a set of activities, the latter represents a process paradigm.
  - Ⓓ While the latter consists of a set of activities, the former represents a process paradigm.

## 2. (*TECHNIQUES/METHODOLOGIES/PRINCIPLES*)

(Question 4 of Assignment 1) Write a fully dressed description of the “Add Book” use case for the bookstore system we have been discussing in class.

## 3. (*PROCESSES/GUIDELINES*)

(Question 2 of Assignment 2) Among the OOA artifacts illustrated in the figure (to be provided), describe their relationship with explanations (use examples(s) when necessary):

- (a) For one use case diagram with N use cases, how many use case descriptions need to be documented? Among them, how are are brief and how many are fully dressed?
- (b) For one brief use case description, how many system sequence diagram needs to be created?
- (c) For one fully-dressed use case description, how many system sequence diagram needs to be created?
- (d) In one system sequence diagram, which type of its elements needs to be further detailed with operation contracts?