

# PGT Exam Performance Feedback

## 2018/2019 Semester 2

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COMP62532 Component-based Software Development

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Comments Section A: MCQs online

### Question 2

This question requires the use of X-MAN component model to build a simple vending machine. Most of the answers are reasonably OK. (i) The definition (design) of the components is mostly OK. (ii) The composition of component however is less satisfactory: the use of the loop connector is either missing or incorrect. (iii) System services are only the ones that the user uses (can see), not the services provided by all the components. (iv) Data channels should connect data ports in components, and are therefore best shown on the system diagram.

### Question 3

This question requires the use of UML2.0 to build a simple vending machine. Most answers were not as good as those for Question 2. (i) UML2.0 components are architectural units, i.e. units with ports (although UML syntax for classes with stereotypes could be used). (ii) The system design should be described using port connections between components. The system-level inputs and outputs should be clearly defined as required and provides services. (iii) System's behaviour should be shown as a flow chart or activity diagram. (iv) System services are the top-level required and provided services.

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