

# PGT Exam Performance Feedback

## 2017/2018 Semester 2

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COMP62532 Component-based Software Development

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Comments Section A: MCQ - feedback not available

Section B:

Question 2

This question requires the use of X-MAN component model to build a home heating system. 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.

Question 3

This question requires the use of EJBs to build a home heating system. Most answers were not as good as those for Question 2. (i) Beans and their interfaces (method signature) should be described using the correct syntax, not just using text, and explained. (ii) The system design should be described using a diagram that shows the interactions (method calls) between beans, and there should be a client application (one not multiple) that invokes the EJBs. (iii) System control flow is often confused with the design (composition) of the system. It should be described as the order in which the EJBs are called, starting from the client application (again just one not multiple). Flow charts, sequence diagrams, or activity diagrams can be used. (iv) The client uses the remote interfaces to turn the system on/off, and to set the desired temperature. Other beans are involved and their interfaces should be shown, to indicate how the services are realised.

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