**BCS Higher Education Qualification**

**Professional Graduate Diploma**

**April 2023**

**EXAMINERS' REPORT**

**Systems Design Methods**

**Questions Report:**

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| **A1** | |
| | This question was answered reasonably well.<br><br>Parts a), b), c) - Only a few candidates were able to sufficiently explain how to cross-check different pairs of diagrams. Most candidates discussed the diagrams instead of speaking on their elements.<br><br>Part d) - Many candidates properly identified throw away prototyping as the approach to prototyping used in the case study method (Mod22). Also candidates sufficiently explained that the Mod22 method is based on the incremental approach. |
| **A2** | |
| | This question was poorly answered.<br><br>Part a) - Most candidates sufficiently discussed techniques suitable for modelling data structures. However, only a few candidates discussed techniques for modelling functionality and interface.<br><br>Part b) - This part caused many problems. Some candidates discussed object-oriented (UML) techniques instead of structured ones, also many discussed methodologies e.g. Agile instead of modelling techniques. |
| **A3** | |
| | In general, this question was answered relatively well.<br><br>Part a) - This part was well answered. However, some candidates seemingly confused efficiency with effectiveness. Answers concerning efficiency were better than answers concerning effectiveness.<br><br>Part b) - Most candidates answered this part well, i.e. they identified projects (ii) and (iii) as projects for which the case study method is suitable and sufficiently justified this. |
| **B4** | |
| | This question was answered reasonably well. Most candidates provided a discussion of the different types of training and their suitability in part a). Candidates provided a reasonable discussion of how the new method would impact developers and users in terms of training in UML and the use of prototyping and iterations in part b). |
| **B5** | |
| | This question was answered reasonably well. Most candidates provided a satisfactory discussion of techniques for checking designs and code, conformation to specification, and user acceptance in part a). Candidates provided some indications of how the different verification and validation techniques could be used in the given method in part b). |