BCS Higher Education Qualification

Diploma

April 2023

EXAMINERS' REPORT

Systems Analysis & Design

Questions Report:

A1	
	This question was answered reasonably well.
	Part a) - Most candidates managed to identify proper processes and datastores.
	However, external entities caused some problems.
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	Part b) - Many candidates provided insufficient explanations of the different roles
	played by DFDs and ERDs in Structured Systems Development.
	Part c) - Only a small number of candidates sufficiently explained why DFDs are not
	normally used in Object Oriented Systems Development.
A2	
	This question was answered reasonably well.
	Part a) - This part was answered reasonably well, but many candidates confused fact
	finding interviews with job interviews.
	Part b) - This part caused some problems. Many candidates confused software
	project stakeholders with business organisation stakeholders. Some candidates did
	not attempt this part.
A3	
	This question was generally well-answered.
	Part a) - This part was answered well. However, there were weaker areas such as;
	some candidates omitted the Planning stage, some candidates specified the stages in
	the wrong order and some candidates provided insufficient explanations of stages.
	Part b) - In general the iterative aspect was better explained than the incremental
	aspect of modern methods.
	Part c) - Adequate answers were provided.
B4	
	Most students did well on this question showing that they understood the basic
	process of normalisation. Some simply presented the stages of the process without
	further explanation, but most ended with the right set of tables in third normal form.
B5	
	This question was generally well-answered. Most students were able to discuss
	generalisation and aggregation with suitable examples in Parts a) and b). Answers to
	part c) were a little more muddled and many students failed to make the key point
	that classes encapsulate behaviour as well as data.
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B6	
	Most students who chose this question were able to produce a reasonable sequence
	diagram showing that they understood how these diagrams show the interaction
	between objects that would deliver a particular piece of functionality. However some
	struggled to explain the difference between sequence and communication diagrams.
	Only a minority were able to clearly explain that in sequence diagrams interaction is
	arranged in a time sequence whilst in communication diagrams the order of
	messages is represented by sequence numbers. Some candidates did not attempt to
	draw a statechart but the ones who did generally did well.