

BCS Level 3 Certificate in Programming
Answer Key and Rationale – QAN 603/1192/7

Question	Answer	Explanation / Rationale	Syllabus Sections
1	D	Interpreted code is translated as it runs, by another program that speaks the native computer's language.	1.1
2	A	The steps align with the steps taken when doing a bubble sort.	1.3
3	C	The design pattern is a trusted re-useable design, and it can be useful in developing software quicker and more consistently.	1.5
4	A	User research takes place at an early stage in the development project which is the requirements analysis stage.	2.2
5	D	This is the main role of the software release engineer in terms of the activities carried out. They may also get involved in release and deployment management, depending on the organisation.	2.3
6	B	This is a definition. A functional test result measures whether software does what it is supposed to but not its performance.	2.4
7	B	Reviewing each other's work is a good example of collaboration.	2.6
8	C	This is the definition of a functional requirement.	3.2
9	D	The correct options describe hours of service available, maintainability and recoverability / time to recovery. The other options are functional requirements.	3.3
10	B	The impact of poor requirements can be far reaching and affect a project at both a technical and business level. The flexibility of the software's architecture isn't directly linked to the requirements rather the technical architecture.	3.5
11	A	The Data Protection Act is a legal constraint.	4.2
12	B	A persona is a representation of a user, typically based off user research and incorporating user goals, motivations, needs, and interests. Design personas focus on user goals, current behaviour, and pain points as opposed to their buying preferences.	4.3
13	B	A graph is efficient in this case because of its structure – basic feature / use.	5.3
14	C	Database normalisation is the process of organising data into tables and column which support a specific topic. The intention of this is to prevent duplication data / information.	6.2
15	B	It doesn't necessarily aid productivity, though in the long run it may do, and it doesn't necessarily increase workload either, though it may initially, depending how it's implemented. It can help reduce workload from duplication.	7.1

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16	A	Coding standards are a team effort and must mature with the project team.	7.2
17	A	This describes the concept.	8.1
18	B	To be operable a website must: <ul style="list-style-type: none"> • Make all functionality available from a keyboard. • Give users enough time to read and use content. • Do not use content that causes seizures. • Help users navigate and find content. 	8.4
19	B	This is a description of the definition.	9.3
20	D	A basic definition.	9.4