

BCS Level 3 IT Solutions Technician EPA Knowledge Unit Software
Answer Key and Rationale

Question	Answer	Explanation / Rationale	Syllabus Sections
1	C	This is a common problem which would require a new solution.	1.1
2	B	None of the other steps can take place until the problem has been quantified.	1.1
3	D	Testing code finds issues and improves quality earlier in the life cycle.	2.1
4	D	Design patterns are pre-solved solutions to commonly occurring technical challenges.	2.2
5	A	During compilation syntactical errors are detected by the compiler.	3.1
6	C	JavaScript is distributed and interpreted by the end user's computer rather than being compiled ahead of time.	3.2
7	B	XML is primarily for structuring data for storage and transfer.	3.3
8	D	The main activity of the analysis phase of developing code is the capturing of requirements.	4.1
9	B	Analysis involves working with the business / stakeholders to understand the problem.	4.1
10	D	This is the primary role of a Software Tester.	4.2
11	C	Retrospectives review the completed work and processes and identify improvements.	4.3
12	A	The list contains strings (of characters) rather than numbers because of the apostrophes.	5.1
13	D	A class is a template that can be instantiated to produce an object / instance.	5.2
14	C	Comments should explain anything that cannot be inferred from reading the code, namely complex areas.	5.3
15	B	A service level measures the operational performance of a system or software.	5.4
16	D	Documentation would provide information the support team could leverage to support a new solution.	5.4
17	A	CRUD represents Create, Read, Update and Delete operations that can be carried out on data.	5.5
18	C	Data modelling is an important factor in software development because it can assist in understanding complex relationships.	6.1

Question	Answer	Explanation / Rationale	Syllabus Sections
19	B	Normalisation involves moving duplicated data to their own core table, from which they can be referenced.	6.2
20	C	Relational databases are made up of a series of interconnected tables.	6.3