

BCS Level 3 Certificate in Software Development Context and Methodologies QAN 603/1191/5

Specimen Paper A

Record your surname / last / family name and initials on the answer sheet.

Specimen paper only 20 multiple-choice questions – 1 mark awarded to each question. Mark only one answer to each question. There are no trick questions.

A number of possible answers are given for each question, indicated by either **A. B. C. or D.** Your answers should be clearly indicated on the answer sheet.

Pass mark is 13/20.

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This qualification is regulated by Ofqual (in England).

1 A clothes manufacturing business has decided to bypass standard retail practices and sell direct to the end customer. What is the term used for this type of business?

- A C2C.
- B C2B.
- C B2B.
- D B2C.

2 Which level of testing is linked with requirements analysis?

- A System.
- B Unit.
- C Acceptance.
- D Integration.

3 Which of the following are **KEY** principles of Agile?

- a) Processes and tools are critical to the success of the project.
- b) Working software is the primary measure of progress.
- c) Responding to constant change is important.

- A b and c only.
- B a and c only.
- C a and b only.
- D a, b and c.

4 A **KEY** reason for considering the operational environment when designing an application is?

- A To ensure that the application can be developed quickly.
- B To anticipate what may affect the usage of the application.
- C To increase the chance of costly, unexpected incidents and problems when it is live.
- D To ensure that there will be no need for further changes to the application after it is live.

- 5 Which of the following are phases of the SDLC?
- a) Feasibility Study.
 - b) Planning.
 - c) Transition support.
 - d) Design.
- A c and d only.
B a and d only.
C b and c only.
D a, b and d only.
- 6 Which of the following are **MOST LIKELY** to happen with an iterative / incremental approach to software development when compared with a sequential approach?
- a) Software testing will happen later.
 - b) A multi-disciplined collaborative approach is adopted.
 - c) There is a focus on the project over the product.
 - d) Understanding of the system architecture is gained earlier.
- A a and c only.
B b and d only.
C b and c only.
D a and d only.
- 7 Which role in software development is **MOST LIKELY** to be directly involved with multiple phases of the SDLC?
- A Project Manager.
 - B Software Tester.
 - C Business Analyst.
 - D Software Developer.

- 8 Which of the following **SHOULD** be controlled using configuration management techniques?
- a) Source code.
 - b) Scripts for testing.
 - c) User Data.
 - d) Reliability requirements documentation.
- A** a and c only.
B a, b and c only.
C a, b and d only.
D b, c and d only.
- 9 Which statements are TRUE when developing mobile applications that will be deployed on multiple platforms?
- a) Well-written code can be used on different platforms.
 - b) Native apps can offer a richer user experience.
 - c) Web apps are quicker to develop than native apps.
- A** a and b only.
B b and c only.
C a and c only.
D All of them.
- 10 Which of the following is a VALID reason why a company may choose to adopt a DevOps working practice?
- A** To establish effective development and operations teams where each has clear separate roles.
 - B** To create better communication between development and operations teams.
 - C** To enable the development staff to work effectively as individuals.
 - D** To handover to operations early to allow developers to start the next project.

- 11** Which of the following statements about 'customers' and 'users' of software is TRUE?
- a) Customers buy the software.
 - b) Customers report to a user.
 - c) All people who use software are users.
 - d) Customers are not users.
- A** a and b only.
B b and d only.
C c and d only.
D a and c only.
- 12** Which component consists of definitions, protocols and tools for building application software?
- A** Database structure.
B Source code.
C Programming interface.
D Library.
- 13** What role is described as follows?
- 'Is involved in the quality assurance stage of software development and deployment. Conducts automated and manually checks to ensure the software is fit for purpose.'
- A** Software tester.
B Software developer.
C Software release engineer.
D Software project manager.
- 14** Which of the following statements is TRUE for software deployed on multiple platforms?
- A** Testing is needed for each platform.
B The code must follow a known coding standard.
C The programming language used must be compiled.
D The software components must be modular.

- 15** Which tool is used to support test specification activities?
- A** Test design tools
 - B** Test execution tool.
 - C** Test data sorting tool.
 - D** Dynamic analysis tool.
- 16** What is a reason to keep digital processes up to date?
- A** To meet the changing needs of the business.
 - B** For users to benefit instantly from new functionality.
 - C** For the correction of any errors in functionality.
 - D** To reduce the usage of old applications.
- 17** Which of the following is a VALID reason why traceability is important between tests and requirements?
- A** It facilitates efficient management of test coverage.
 - B** It enables accurate analysis of the impact of change on testing.
 - C** It separates testing from debugging.
 - D** It identifies the different test techniques that have been used.
- 18** Which of the following are reasons why it is important to agree to non-functional requirements?
- a) To ensure software is available when needed.
 - b) To ensure there is resource to support the software when operational.
 - c) To ensure the software interacts correctly with business processes.
 - d) To make sure the software can continue to operate after an incident.
- A** a, b and c only.
 - B** a, c and d only.
 - C** a, b and d only.
 - D** b, c and d only.

- 19 What will **NOT** influence an organisation's choice of software solutions?
- A Business need.
 - B Chosen development methodology.
 - C Existing development capabilities.
 - D Risk of changing requirements.
- 20 Which of the following is the **MOST** VALID reason for managing software under version control?
- A Different code bases need to be maintained for different platforms.
 - B Business units may need slightly different versions of a system deployed.
 - C Different customers require the same version of products to make the complaints process easier to manage.
 - D Unrelated systems are being deployed to the same customer.

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