



5220-536 MARCH 2018

Level 3 Advanced Technical Extended Diploma in Digital Technologies (720)

Level 3 Digital Technologies (System Infrastructure) – Theory exam (2)

If provided, stick your candidate barcode label here.

Thursday 1 March 2018
09:30 – 12:00

Candidate name (first, last)

First

[illegible]

Last

[illegible]

Candidate enrolment number

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Date of birth (DDMMYYYY)

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Gender (M/F)

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Assessment date (DDMMYYYY)

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Centre number

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Candidate signature and declaration*

- If any additional answer sheets are used, enter the additional number of pages in this box. ➡

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- Please ensure that you **staple** additional answer sheets to the **back** of this answer booklet, clearly labelling them with your full name, enrolment number, centre number and qualification number in BLOCK CAPITALS.
- All candidates need to use a **black/blue pen**. **Do not** use a pencil or gel pen.
- If provided with source documents, these documents **will not** be returned to City & Guilds, and will be shredded. **Do not** write on the source documents.

***I declare that I had no prior knowledge of the questions in this assessment and that I will not divulge to any person any information about the questions.**

General instructions

- The marks for questions are shown in brackets.
- Answer **all** questions.
- Answer the questions in the spaces provided. Answers written in margins or on blank pages will **not** be marked.
- Cross through any work you do not want to be marked.
- Write all your working out and answers in this booklet.

- 1 State in the correct order the first **four** stages of the system development lifecycle. (4 marks)

- 2 Explain **three** factors that need to be taken into account when scoping a system development. (6 marks)

- 3 Explain the purpose of 'prototyping' a system. (2 marks)

- 4 State **two** benefits of using cloud technologies. (2 marks)

- 5 Explain how **two** cloud services can support the activities of a business. (4 marks)

- 6 Explain **three** standard metrics that may be used to justify a transition to cloud-based services for a business or an organisation. (6 marks)

- (2 marks)

- (6 marks)

[illegible]

- (2 marks)

- (6 marks)

[illegible]

- (2 marks)

- 12 Explain **two** methods of validating technical support information that may be gathered during system troubleshooting.

(4 marks)

- 13 Explain **two** factors that must be taken into account when communicating the result of technical support to a user.

(4 marks)

- 14 State **two** Infrastructure Management roles that would be involved in regular ongoing support for an organisation's e-commerce website.

(2 marks)

- 15 Explain **two** features of a centralised computing facility used by a large organisation. (4 marks)

- 16 a) State **two** ways that data/information accessed by external users of an organisation might be hosted. (2 marks)

- b) Explain **two** authentication methods that may be used when accessing the data/information identified in Question 16a). (4 marks)

- (9 marks)

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- (9 marks)

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