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**5220-520 MARCH 2019****Level 2 Technical Award in Digital Technologies****Level 2 Digital Technologies – Theory Exam**

If provided, stick your candidate  
barcode label here.

**Tuesday 5 March 2019**  
**09:30 – 12:00**

Candidate name (first, last)

First

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Last

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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\*

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

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- Before taking the examination, **all candidates** must check that their barcode label is in the appropriate box. Incorrectly placed barcodes may cause delays in the marking process.
- Please ensure that you staple additional answer sheets to the **back** of this answer booklet, clearly labelling these 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, unless otherwise instructed.
- 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 examination and that I will not divulge to any person any information about the questions.**

**You should have the following for this examination**

- a pen with blue or black ink

**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.

1 State **four** types of non-volatile storage media.

(4 marks)

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2 Explain the **main** function of the following devices.

- Router.
- Switch.
- Network Interface card (NIC).

(6 marks)

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- (6 marks)

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- (4 marks)

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- 5 State **four** items of demographic information that can be taken into account when identifying a target audience.

(4 marks)

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- 6 Describe each of the following.

- Identity theft.
- Phishing.
- Sexting.

(6 marks)

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7 Explain the following image editing terms.

- Resolution.
- Aspect ratio.

(4 marks)

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8 State **four** file formats that can be used when working with images.

(4 marks)

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9 Explain the following compression methods.

- Lossy.
- Lossless.

(4 marks)

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10 Explain how data is represented in the following charts.

- Bar charts.
- Pie charts.
- Scatter charts.

(6 marks)

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- Domain name.
- HTML.
- Accessibility features.

[illegible]

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13 Explain the following terms.

- Primary data.
- Secondary data.

(4 marks)

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- 14 A small company has asked you to develop a website that is linked to a database containing images and details of their stock.

Discuss what you would consider when planning and developing the website.

(9 marks)

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- (9 marks)

[illegible]