



Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

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Forename(s)

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Candidate signature

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# Level 3 Technical Level Entertainment Technology DIGITAL ASSET MANAGEMENT

Unit T/507/6611

Tuesday 27 June 2017

Morning

Time allowed: 2 hours

## Materials

For this paper you must have:

- pens
- pencils
- simple drawing instruments
- scientific calculator (non-programmable).

## Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

## Information

- There are two sections to this paper.
- Both sections should be attempted.
- Candidates should spend approximately 60 minutes on Section A and 60 minutes on Section B.
- The maximum mark for this paper is 80.
- The marks for the questions are shown in brackets.

## Advice

- Please read each question carefully before starting.

For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
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16	
17	
TOTAL	



J U N 1 7 T 5 0 7 6 6 1 1 0 1

G/TI/Jun17/E3

**T/507/6611**

**Section A**Answer **all** questions in this section.**Total for this section: 50 marks**In the multiple choice questions, only **one** answer per question is allowed.

For each question completely fill in the circle alongside the appropriate answer.

CORRECT METHOD



WRONG METHODS



If you want to change your answer you must cross out your original answer as shown.



If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown.

**0 1**Which one of these compression algorithms is **not** lossy?**A** H.264 encoding**B** Lempel-Ziv encoding**C** MP3 encoding**D** JPG encoding**[1 mark]****0 2**

Which compression algorithm is used for encoding GIF images?

**A** LZW**B** RLE**C** PNG**D** Neville-Manning**[1 mark]**

0 2

0 3

Which of these file formats would be appropriate for displaying charts in a web browser?

A    PNG

B    TEX

C    XML

D    AAC

[1 mark]

0 4

Which one of these file formats is **not** lossy?

A    AAC

B    MP3

C    FLAC

D    JPG

[1 mark]

0 5

How do you change the contents of a Git repository for which you are not the owner?

A    Fork the repository

B    Push the repository

C    Submit a branch request

D    Submit a pull request

[1 mark]

Turn over ►



0 3

G/Jun17/T/507/6611

0 6

Which one of these statements is **false**?

- A Git operates on a distributed model
- B Git repositories may be hidden from public view
- C Git is a distributed revision control system
- D Git requires at least two computers to operate

[1 mark]

0 7

In a game development studio, failure of backup is most likely to:

- A damage production data
- B make repository data unavailable
- C increase the risk of losing data
- D corrupt information about day-to-day operations

[1 mark]

0 8

What does MTBF mean?

- A Maximum time before failure
- B Mean time between failure
- C Maximum time between failure
- D Minimum time before failure

[1 mark]

8



0 4

0	9
---	---

0	9
---	---

. **1** Write the number of characters in the word

Disproportionate

as a decimal constant, a binary constant and a hexadecimal constant.

**[3 marks]**

Decimal: \_\_\_\_\_

Binary: \_\_\_\_\_

Hexadecimal: \_\_\_\_\_

0	9
---	---

. **2** Write the number of characters in the phrase

To be or not to be? That is the question.

as a decimal constant, a binary constant and a hexadecimal constant.

**[3 marks]**

Decimal: \_\_\_\_\_

Binary: \_\_\_\_\_

Hexadecimal: \_\_\_\_\_

Working area for Question 9

6
---

Turn over ►



0 5

1 | 0

Identify and compare two types of **media** suitable for backup storage of digital information.

[6 marks]

6



0 6

1 | 1

A web page contains the following files:

Index.xml  
Header.png  
Footer.png  
Sidebar.png  
FlowControl.odg  
Distribution.xml

Identify the file formats that the author has chosen for the data contained in the web page.

What constraints might the website owner have placed on the designer which caused them to choose these file formats?

[6 marks]

6

**Turn over for the next question**

Turn over ►



1 | 2

A solar panel manufacturer has a set of marketing films which they want to put on a website, featuring the functioning of their products with footage of the product in use, interviews with satisfied customers and a tour of the factory where the products are made.

Identify the issues which the **website designer** should take into account when recommending a file format for transcoding these films.

[6 marks]

6



1 | 3

Provide examples of the three different models of version control, describing their unique features.

[6 marks]

6

**Turn over for the next question**

Turn over ►



0 9

1 | 4

As part of their induction, a new employee has been given the job of investigating the live code base, making recommendations to improve it and then implementing those recommendations, ready for inclusion. The code base is kept in a Git repository.

Describe the operations the employee would carry out on the repository to complete this task, detailing the appropriate commands.

As a reference, the most relevant git commands are config, init, clone, add, commit, status, checkout, merge, pull, push, and diff.

[6 marks]

6



1 | 5

Describe the difference between recovery time and recovery point objectives.

Explain the different circumstances in which you would use them.

[6 marks]

6

**Turn over for Section B**

Turn over ►



## Section B

Answer **all** questions in this section.

**Total for this section: 30 marks**

1 | 6

During archiving, it is sometimes useful to compress files before they are stored.

Explain the reasons for this and when it is **unlikely** to be useful. Provide examples of how you would do this to demonstrate your reasoning.

[15 marks]



---

15

Turn over ►



17

A small software company has decided to make a phone game based on comparing photographs and drawings and identifying their common themes. They expect to need over 2000 images which they cannot produce themselves in a cost-effective way, and have decided to use images from third parties.

17

. **1** Describe the sources they might choose for obtaining these images and the licensing issues they might encounter.

[8 marks]



While developing the software, the programmers find several examples of similar games, including source code which would solve problems they have encountered.

**1 7 . 2** Describe the licences that may be offered and explain the issues that need to be considered when deciding whether or not to use these source code fragments.

[7 marks]

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15

**END OF QUESTIONS**



**There are no questions printed on this page**

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ANSWER IN THE SPACES PROVIDED**

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