

**CAMBRIDGE TECHNICALS LEVEL 3 (2016)**

**Examiners' report**

**IT**

**05838–05842, 05877**

**Unit 2 January 2023 series**

# Contents

- Introduction .....3
- Unit 2 series overview .....4
- Section A overview .....5
  - Question 1 (a) .....5
  - Question 1 (b) .....5
  - Question 1 (c) .....6
  - Question 1 (d) .....7
  - Question 2 (a) .....8
  - Question 2 (b) .....9
  - Question 3\* .....10
  - Question 4 (a) .....11
  - Question 4 (b) .....11
  - Question 5 (a) .....12
  - Question 5 (b) .....13
- Section B overview .....14
  - Question 6 (a) .....14
  - Question 6 (b) .....14
  - Question 6 (c) .....15
  - Question 7 (a) .....15
  - Question 7 (b) .....16
  - Question 7 (c) .....17
  - Question 8 (a) .....17
  - Question 8 (b) .....18
  - Question 9\* .....19
  - Question 10 (a) .....20
  - Question 10 (b) .....20
  - Question 10 (c) .....21

## Introduction

Our examiners' reports are produced to offer constructive feedback on candidates' performance in the examinations. They provide useful guidance for future candidates.

The reports will include a general commentary on candidates' performance, identify technical aspects examined in the questions and highlight good performance and where performance could be improved. The reports will also explain aspects which caused difficulty and why the difficulties arose, whether through a lack of knowledge, poor examination technique, or any other identifiable and explainable reason.

Where overall performance on a question/question part was considered good, with no particular areas to highlight, these questions have not been included in the report.

A full copy of the question paper and the mark scheme can be downloaded from OCR.

### Would you prefer a Word version?

Did you know that you can save this PDF as a Word file using Acrobat Professional?

Simply click on **File > Export to** and select **Microsoft Word**

(If you have opened this PDF in your browser you will need to save it first. Simply right click anywhere on the page and select **Save as . . .** to save the PDF. Then open the PDF in Acrobat Professional.)

If you do not have access to Acrobat Professional there are a number of **free** applications available that will also convert PDF to Word (search for PDF to Word converter).

## Unit 2 series overview

The overall performance of the candidate continues to improve. However, it was also noted that many candidates still demonstrated knowledge gaps in relation to the unit content. Centres should ensure that candidates are familiar with all areas of the unit content before being entered for the external examination.

The correlation between content, context and command words still appeared to be limited. Candidates should be aware of the differing command words, e.g., identify, describe, explain, discuss, and the demands of each of these. Candidates should also be familiar with the concept that questions may have a specific focus. It is this focus which should be considered by candidates when composing their responses to questions.

In this unit, a pre-release case study is issued, this provides the context for Section A of the external examination. A limited number of candidates appeared to be unfamiliar with the context of the case study, for this external examination this was a motorbike race team (PHGP). This apparent lack of familiarity limited candidate's accessibility to many of the questions in Section A of the external examination where the questions are directly linked to this case study.

The case study also includes some research prompts for candidates. These prompts should not be ignored as the knowledge gained through completing the research will enhance accessibility to the questions in Section A.

Section B of the external examination does not require candidates to link their responses to the case study. It was, however, noted that there was evidence of knowledge gaps from the candidates' responses in this section.

There are many resources available which can be used during the teaching of this unit. Centres are encouraged to access the resources available from the OCR website that relate to the interpretation of the case study and exemplification / analysis of candidate responses from previous sessions.

### OCR support



Further guidance relating to the case study, research bullets and how these relate to the questions in Section A can be found in the [Understanding the case study: June 2018 \(Unit 02\)](#).

#### Candidates who did well on this paper generally did the following:

- applied their responses in Section A to the pre-release case study
- answered questions in Section B in the context of the context of an independent theatre
- understood the question command words and the demands of these.

#### Candidates who did less well on this paper generally did the following:

- provided limited application of the responses in Section A to the pre-release case study
- provided responses which did not apply to the context in Section B.





### Question 1 (d)

The technical team converts the collected data into a graph to enable the data to be analysed.

**(d)** Identify the data analysis tool the graph would be included in. Justify your choice.

Data analysis tool .....

Justification .....

.....

.....

.....

.....

.....

**[4]**

Details were provided in the case study about how the collected sensor data could be converted in a graph. It was noted that many candidates provided responses that related to a spreadsheet which is the software that could be used to convert the data to a graph. This, and other responses to this question appeared to demonstrate a knowledge gap relating to the different types of data analysis tools as defined in the unit specification.

If candidates did not access the mark allocated for identifying the correct data analysis tool, they were unable to be considered for marks for the justification.

Where candidates did provide the correct response, visualisation of data, they then went on to provide a clear and detailed justification. Acceptable justifications included the fact that graphs can enable complicated data to be visualised and analysed.

### Question 2 (a)

2 The data collected from the sensors on the bike is automatically uploaded to a secure cloud storage area.

(a) Identify the information format that the cloud storage area would be included in. Justify your choice.

Information format .....

Justification .....

.....

.....

.....

.....

.....

**[4]**

Details were provided in the case study about how the collected sensor data is automatically uploaded to a secure cloud area. Some of the responses to this question appeared to demonstrate a knowledge gap relating to the different types of information formats as defined in the unit specification.

Where candidates did provide the correct response, document store, they then went on to provide a clear and detailed justification. Acceptable justifications included that the data can be uploaded and stored securely until PHGP needs it and the PH GP teams can access the data from different locations such as trackside or at the race team base.

If candidates did not access the mark allocated for identifying the correct information format, they were unable to be considered for marks for the justification.



### Question 2 (b)

(b) Describe **one** advantage and **one** disadvantage to the PH GP team of uploading the data to the secure cloud storage area.

Advantage .....

.....  
.....  
.....  
.....  
.....

Disadvantage .....

.....  
.....  
.....  
.....  
.....

**[4]**

The focus of this part of the question was on the advantage and disadvantage of uploading the data to the secure cloud area. Many candidates were able to access 1 mark each for the advantage and disadvantage. To access the 2<sup>nd</sup> mark allocated for the advantage and disadvantage the response needed to be fully applied and relevant to the PH GP, such as detailing who could access the area and from where. This could include details such as the technical team at the race base being able to access data uploaded by the trackside technical team.

However, many candidates provided generic further description in their response which did not apply to PH GP. This strategy limited the accessibility to the 2<sup>nd</sup> marks available for the advantage and disadvantage.



### Question 4 (a)

4 PH GP provides the riders with team orders.

(a) Identify the information style the team orders would be included in.

..... [1]

Many candidates were able to correctly identify that the team orders would be included in the audio information style. Details were provided in the case study relating to how team orders are provided to the riders.

### Question 4 (b)

(b) Explain why it is important that the team orders provide good quality information to the rider.

.....  
.....  
.....  
.....  
.....  
.....  
..... [3]

The focus of this question was on the importance of good quality information being provided to the rider. Acceptable responses included the fact that good quality information could be understood by the rider with little, if any, confusion. Some candidates responded conversely to the question by detailing what could happen if the orders were not of good quality. This was an acceptable strategy as long as the response clearly defined and specified that the response related to this.

### Question 5 (a)

5 During the race, fans can watch the race and read live text commentaries on the circuit website.

(a) Explain why dynamic webpages are used for displaying the live text commentaries.

.....

.....

.....

.....

.....

.....

..... **[3]**

Many of the responses to this question demonstrated a knowledge gap relating to dynamic webpages. There appeared to be a misconception that dynamic webpages need to be refreshed to see the live updates.

Where candidates did have a good knowledge about this area of the unit specification, they were able to access all allocated marks. Acceptable responses included details relating to dynamic pages automatically update the text commentaries when they are submitted to the web page.

### Question 5 (b)

The racers post blogs to their webpages. The blogs can be included in the public information classification.

**(b)** Explain why the blogs would be included in the public information classification.

.....

.....

.....

.....

.....

.....

..... **[3]**

Many candidates were able to access all marks allocated to this question. The main focus of the responses was that blogs do not contain sensitive or private information so this information can be released into the public domain.

## Section B overview

Candidates did not need to apply their responses to PH GP in this section of the external examination.

The scenario for this section related to an independent theatre based in Bristol. As such, all examples, where required, should be applicable to this scenario.

### Question 6 (a)

A small independent theatre puts on events such as plays and talks by celebrities.

The theatre is located in the centre of Bristol.

**6 (a)** Identify the category of information holder the theatre would be included in.

..... [1]

Many candidates were able to correctly identify that the theatre would be included in the business or organisation category of information holders.

### Question 6 (b)

All bookings for the events are done online by customers through the theatre's website. As part of the booking process, customers select the seats they would like to book from a seat plan.

The seat plan shows the location of the seats in the theatre and their price.

**(b)** Identify the information style the seat plan would be included in.

..... [1]

Many candidates were able to correctly identify that the seat plan would be included in the graphic or image category of information style.

### Question 6 (c)

- (c) Explain why the seat plan and the price of each seat need to demonstrate the characteristic of validity.

.....

.....

.....

.....

.....

.....

..... [3]

The focus of the question was the application of knowledge about validity to the seat plan and prices. Many candidates were able to provide details relating to what validity is, being correct and up to date. This then led them to provide further details about seats could be double booked if the pan was not valid or the different process that can be applied to different seat location.

It was obvious that many of the candidates drew on their personal experiences when responding to this question.

### Question 7 (a)

- 7 When the seats have been chosen the customer pays for the seats using a secure payment process.
- Customers have to input their contact and payment details.
- (a) The payment details are stored by the theatre and are completely anonymised.
- Explain what is meant by completely anonymised.

.....

.....

.....

.....

.....

.....

..... [3]

The responses provided to this question were varied with some demonstrating knowledge gaps. Where candidates provided a correct response, they were able to access all allocated marks. A technical definition was required which included details relating to the data having all links to a person removed.

There did appear to be a misconception relating to completely anonymised data having the data replaced by a symbol such as a star (\*).

### Question 7 (b)

(b) Explain **one** positive impact to the customers of their payment details being completely anonymised.

.....

.....

.....

.....

.....

.....

..... [3]

Many candidates were able to access at least 1 mark for this question, that being awarded for details relating to customers will know that their payment details are safe. There was a correlation between those candidates gaining all allocated marks for part (a) of this question and being awarded all allocated marks for this part of the question.

Where candidates did score well, they then went on to explain that the names of the customers could not be linked to the payment details so there was not enough detail to be able to use the payment details if the theatre was the victim of a data breach.



### Question 7 (c)

(c) Identify and describe **one** impact that could affect the flow of information during the booking process.

Impact .....

Description .....

.....

.....

.....

.....

[3]

Many candidates provided vague details relating to the identification of the impact. Vague impacts provided included server issues. Candidates working at this level should be able to provide specific rather than generic points. Acceptable impacts included a high volume of users or unstable internet connection.

If candidates did not access the mark allocated for identifying a correct impact, they were unable to be considered for marks for the justification.

### Question 8 (a)

8 After each event, the theatre uses charts and graphs to analyse the sales of each type of seat.

(a) Explain, using an example, how charts and graphs could be used to analyse the sales of each type of seat sold.

.....

.....

.....

.....

.....

.....

[4]





### Question 10 (a)

**10** The theatre has a social media page.

The social media page is used to keep customers up to date about upcoming events and to give news updates about the theatre.

Reviews of the events can be posted by customers.

**(a)** Identify the category of information the reviews would be included in.

..... **[1]**

Many candidates were able to correctly identify that the reviews would be included in the communication or entertainment category of information.

### Question 10 (b)

**(b)** Describe **one** advantage and **one** disadvantage to the theatre of using social media.

Advantage .....

.....  
.....  
.....  
.....  
.....

Disadvantage .....

.....  
.....  
.....  
.....

**[4]**

The focus of this part of the question was on the advantage and disadvantage of the theatre using social media. Many candidates were able to access 1 mark each for the advantage and disadvantage. To access the 2<sup>nd</sup> mark allocated for the advantage and disadvantage the response needed to be fully applied and relevant to the theatre rather than generic points.

### Question 10 (c)

The theatre has posted a news update about their use of Green IT.

(c) Explain **one** requirement of Green IT on the theatre.

.....

.....

.....

.....

.....

.....

..... **[3]**

Many candidates were able to provide a clear explanation of a requirement of Green IT. However, there were some responses that related to, for example, recycling the scenery used in the theatre which, although is applicable to the theatre, does not relate to Green IT.

---

# Supporting you

---

## Reviews of marking

If any of your students' results are not as expected, you may wish to consider one of our post-results services. For full information about the options available visit the [OCR website](#).

## Keep up-to-date

We send a monthly bulletin to tell you about important updates. You can also sign up for your subject specific updates. If you haven't already, [sign up here](#).

## OCR Professional Development

Attend one of our popular CPD courses to hear directly from a senior assessor or drop in to a Q&A session. Most of our courses are delivered live via an online platform, so you can attend from any location.

Please find details for all our courses on the relevant subject page on our [website](#) or visit [OCR professional development](#).

## Signed up for ExamBuilder?

**ExamBuilder** is the question builder platform for a range of our GCSE, A Level, Cambridge Nationals and Cambridge Technicals qualifications. [Find out more](#).

ExamBuilder is **free for all OCR centres** with an Interchange account and gives you unlimited users per centre. We need an [Interchange](#) username to validate the identity of your centre's first user account for ExamBuilder.

If you do not have an Interchange account please contact your centre administrator (usually the Exams Officer) to request a username, or nominate an existing Interchange user in your department.

## Need to get in touch?

If you ever have any questions about OCR qualifications or services (including administration, logistics and teaching) please feel free to get in touch with our customer support centre.

Call us on  
**01223 553998**

Alternatively, you can email us on  
**support@ocr.org.uk**

For more information visit

 **ocr.org.uk/qualifications/resource-finder**

 **ocr.org.uk**

 **facebook.com/ocrexams**

 **twitter.com/ocrexams**

 **instagram.com/ocrexaminations**

 **linkedin.com/company/ocr**

 **youtube.com/ocrexams**

## We really value your feedback

Click to send us an autogenerated email about this resource. Add comments if you want to. Let us know how we can improve this resource or what else you need. Your email address will not be used or shared for any marketing purposes.



**I like this**



**I dislike this**

Please note – web links are correct at date of publication but other websites may change over time. If you have any problems with a link you may want to navigate to that organisation's website for a direct search.



OCR is part of Cambridge University Press & Assessment, a department of the University of Cambridge.

For staff training purposes and as part of our quality assurance programme your call may be recorded or monitored. © OCR 2023 Oxford Cambridge and RSA Examinations is a Company Limited by Guarantee. Registered in England. Registered office The Triangle Building, Shaftesbury Road, Cambridge, CB2 8EA. Registered company number 3484466. OCR is an exempt charity.

OCR operates academic and vocational qualifications regulated by Ofqual, Qualifications Wales and CCEA as listed in their qualifications registers including A Levels, GCSEs, Cambridge Technicals and Cambridge Nationals.

OCR provides resources to help you deliver our qualifications. These resources do not represent any particular teaching method we expect you to use. We update our resources regularly and aim to make sure content is accurate but please check the OCR website so that you have the most up to date version. OCR cannot be held responsible for any errors or omissions in these resources.

Though we make every effort to check our resources, there may be contradictions between published support and the specification, so it is important that you always use information in the latest specification. We indicate any specification changes within the document itself, change the version number and provide a summary of the changes. If you do notice a discrepancy between the specification and a resource, please [contact us](#).

You can copy and distribute this resource freely if you keep the OCR logo and this small print intact and you acknowledge OCR as the originator of the resource.

OCR acknowledges the use of the following content: N/A

Whether you already offer OCR qualifications, are new to OCR or are thinking about switching, you can request more information using our [Expression of Interest form](#).

Please [get in touch](#) if you want to discuss the accessibility of resources we offer to support you in delivering our qualifications.