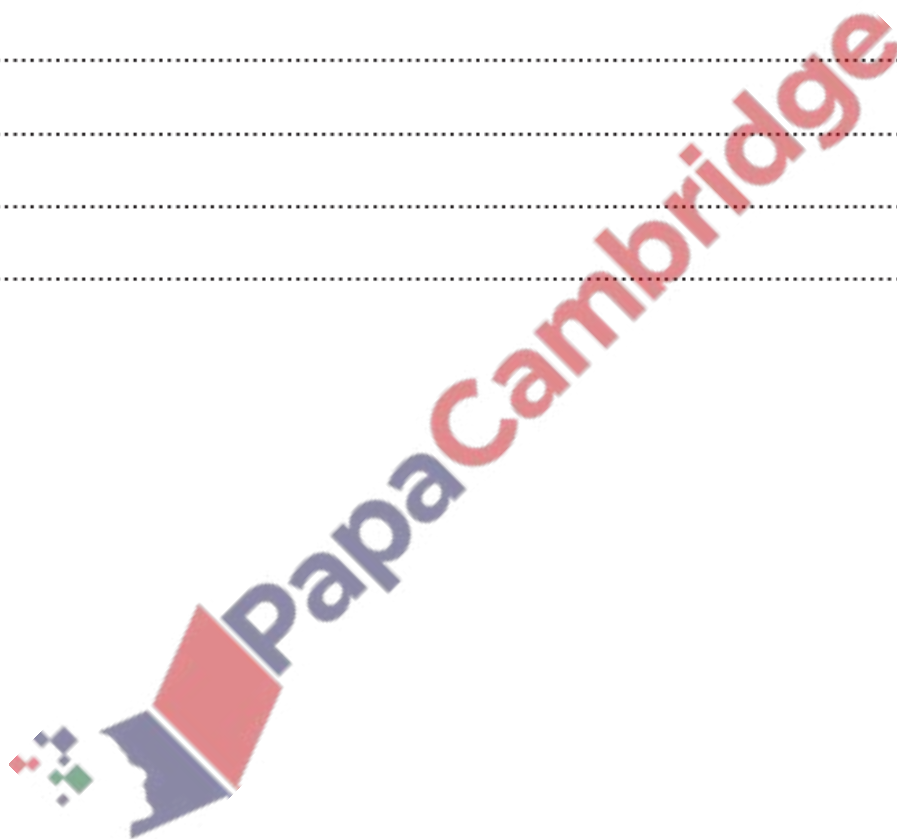# The systems life cycle – 2022 ICT IGCSE 0417

1. March/2022/Paper_12/No.7(b_ c)

   (b) Identify the most appropriate method of implementation of the new online booking system in this scenario.

   .... [1]

   (c) Explain, giving reasons, why your answer to **part (b)** is the most appropriate method of implementation for this scenario.

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   .... [3]

A system can be analysed using different methods.

Discuss the advantages and disadvantages of analysing a system by interviewing staff rather than using questionnaires.

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.... [6]

3.

Different methods can be used to analyse a system.

Discuss the benefits and drawbacks of analysing a system by observing staff rather than looking at the current systems documentation.

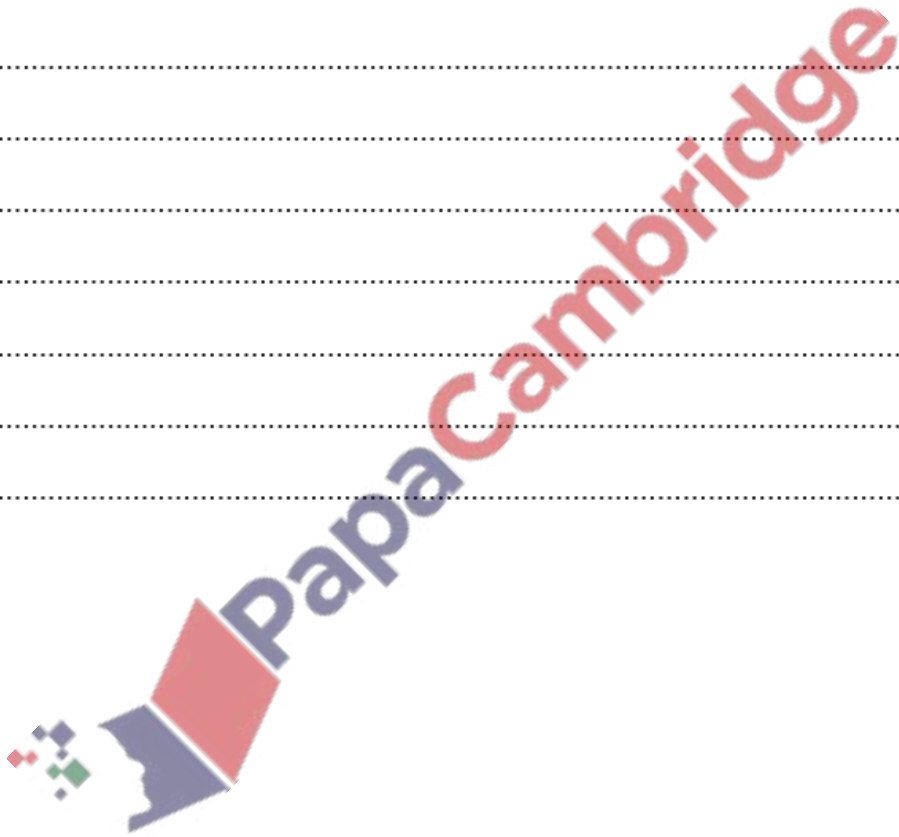...

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.... [6]

A librarian in a college department library is entering data into a student borrowers' file. As the data is entered it needs to be verified.

(a) Describe the **two** types of verification.

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2 ....

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[4]

(b) Explain, using examples, why it is necessary to carry out validation as well as verification for this system.

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.... [4]

5.
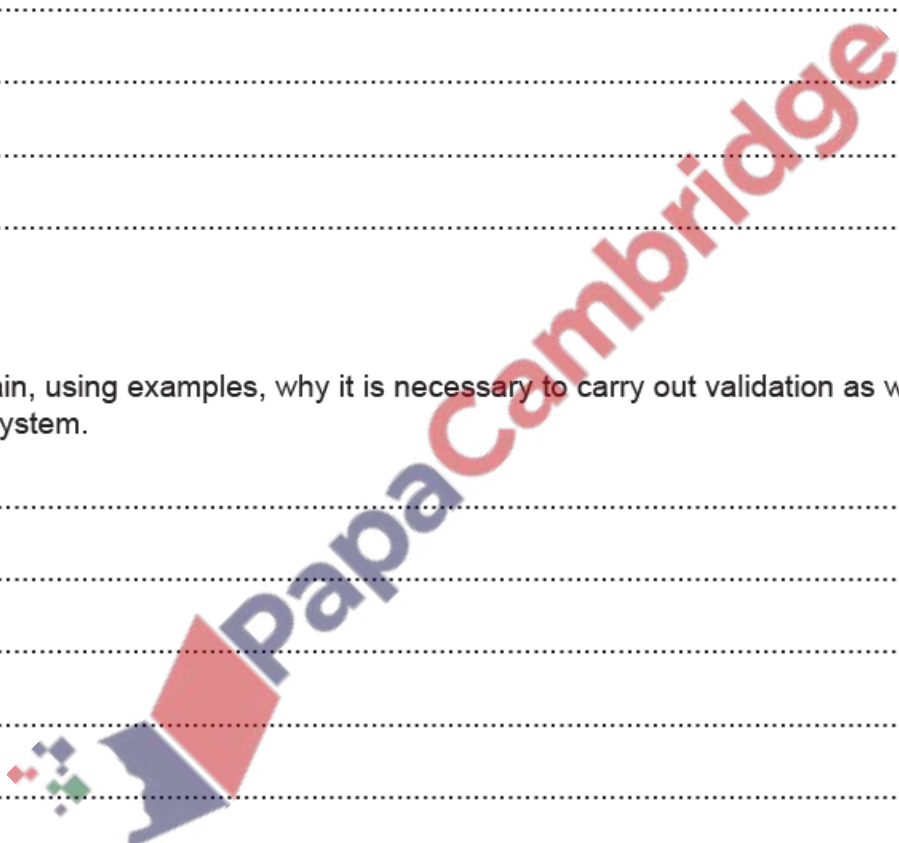
The manager of a cinema has purchased a new booking system. There are 26 rows in the cinema with 20 seats on a row. Each seat is identified by a unique ID. The seat ID consists of the row letter followed by the position of the seat on the row. An example of the seat on row F position 12 would be F12.

He is setting up a test plan to test the system.

(a) Write down **one** example of each of the following types of test data. The answers must be different in each case.

Normal ....

Abnormal ....

[2]

6.

A teacher is setting up a database which she will use to record her student's exam marks.

(a) The teacher is planning to test the mark range using different types of test data. The range of marks that the teacher can award is 0 to 100.

    (i) Write down **one** example of extreme test data that the teacher can use to check the range.

    .... [1]

    (ii) Extreme test data is one type of test data. The teacher uses two other pieces of test data.

    Write down the type of test data for each of the examples.

    TEN ....

    55 ....

[2]

7.

Proofreading is often confused with visual verification.

Describe the differences between proofreading and visual verification.

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.... [2]

8.

The restaurant owner is planning to upgrade the software used to book reservations. He has employed a systems analyst who is analysing the current system. The systems analyst can either send out questionnaires for staff to answer or observe staff working with the current system.

(b) Discuss the advantages and disadvantages of using questionnaires that staff answer rather than observing staff to gather information about the current system.

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.... [6]