

January 2010



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StudentBounty.com NORTHERN IRELAND GENERAL CERTIFICATE OF SECONDARY EDUC AND NORTHERN IRELAND GENERAL CERTIFICATE OF EDUCATIO

MARK SCHEMES (2010)

Foreword

Introduction

Mark Schemes are published to assist teachers and students in their preparation for examinations. Through the mark schemes teachers and students will be able to see what examiners are looking for in response to questions and exactly where the marks have been awarded. The publishing of the mark schemes may help to show that examiners are not concerned about finding out what a student does not know but rather with rewarding students for what they do know.

The Purpose of Mark Schemes

Examination papers are set and revised by teams of examiners and revisers appointed by the Council. The teams of examiners and revisers include experienced teachers who are familiar with the level and standards expected of 16- and 18-year-old students in schools and colleges. The job of the examiners is to set the questions and the mark schemes; and the job of the revisers is to review the questions and mark schemes commenting on a large range of issues about which they must be satisfied before the question papers and mark schemes are finalised.

The questions and the mark schemes are developed in association with each other so that the issues of differentiation and positive achievement can be addressed right from the start. Mark schemes therefore are regarded as a part of an integral process which begins with the setting of questions and ends with the marking of the examination.

The main purpose of the mark scheme is to provide a uniform basis for the marking process so that all the markers are following exactly the same instructions and making the same judgements in so far as this is possible. Before marking begins a standardising meeting is held where all the markers are briefed using the mark scheme and samples of the students' work in the form of scripts. Consideration is also given at this stage to any comments on the operational papers received from teachers and their organisations. During this meeting, and up to and including the end of the marking, there is provision for amendments to be made to the mark scheme. What is published represents this final form of the mark scheme.

It is important to recognise that in some cases there may well be other correct responses which are equally acceptable to those published: the mark scheme can only cover those responses which emerged in the examination. There may also be instances where certain judgements may have to be left to the experience of the examiner, for example, where there is no absolute correct response - all teachers will be familiar with making such judgements.

The Council hopes that the mark schemes will be viewed and used in a constructive way as a further support to the teaching and learning processes.



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A2 7: Unit 7







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Applied Information and Communication Technology

Assessment Unit A2 7

assessing

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[A6J11]

THURSDAY 14 JANUARY, AFTERNOON

MARK SCHEME

| 1 (a) To deal with an increasing customer base To handle paperwork To make the business more professional To make the business more competitive To improve communication To improve efficiency To improve efficiency To improve the image of the business To store large amounts of data Internet presence Current system out of date [1] mark for each of any three from the above list or other suitable alternative [3] (f) Explanation related to TIP TOP TOES – specific examples needed from ease study. Sometimes make mistakes – e.g. forget to book extra time for a new client; try to charge a cancellation fee when it has already been paid Increasingly popular – therefore number of documents to be updated – all listed in case study. Sometimes make mistakes – e.g. forget to book extra time for a new client; try to charge a cancellation fee when it has already been paid Increasingly popular – therefore increased security/ access to data. More professional image – rather than having to handwrite receipts – they will enable company to promote itself via the internet [1] mark for each example [3] 6 2 (a) (i) Plan 2 [1] Candidate provides a basic answer showing limited understanding of the problems with plan 1: Mark Bond (1)-[2] Candidate provides a basic answer showing limited understanding of the problems with plan 1: Imited invokedge and understanding displayed. A No reference to timing of activities. Basic written communication. | | | | S | |
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| Mark Band ([1]-[2]) Candidate provides a basic answer showing limited understanding of the problems with plan 1. Limited knowledge and understanding displayed. Limited reference to specific techniques. Limited discussion of the plan and its application to the investigation at TIP TOP TOES. No reference to timing of activities. | 2 | (a) | (i) Plan 2 | [1] | |
| Candidate provides a basic answer showing limited understanding of the problems with plan 1. Limited knowledge and understanding displayed. Limited reference to specific techniques. Limited discussion of the plan and its application to the investigation at TIP TOP TOES. No reference to timing of activities. | | | (ii) Problems with plan 1: | | |
| | | | Candidate provides a basic answer showing limited understanding of the problems with plan 1. Limited knowledge and understanding displayed. Limited reference to specific techniques. Limited discussion of the plan and its application to the investigation at TIP TOP TOES. No reference to timing of activities. | | |
| | | | | | |

Mark Band ([3]-[4])

Candidate provides a competent answer indicating understanding of the techniques and their application to TIP TOP TOES.

- Some knowledge and understanding displayed. _
- Reasonable reference to advantages and disadvantages of each technique.
- StudentBounty.com Reasonable discussion of correct order of activities and their application to the investigation at TIP TOP TOES.
- Appropriate level of written communication _

Mark Band ([5]-[6])

Candidate provides a very competent answer showing thorough understanding of problems with plan 1.

- Very good knowledge and understanding displayed of fact finding techniques.
- Relevant reference to specific advantages and disadvantages.
- Clear discussion of the various techniques and their application to the investigation at TIP TOP TOES.
- Detailed discussion concerning ordering of activities within plan. —
- Very effective written communication

Would take a lot of time to interview all customers.

Not a good idea to start with interviews – need to do some general background research first.

Why decide to observe the therapist – her work will be guite specialised - it would be better to observe someone in a more general role in the organisation.

Observation should also be done later in the process.

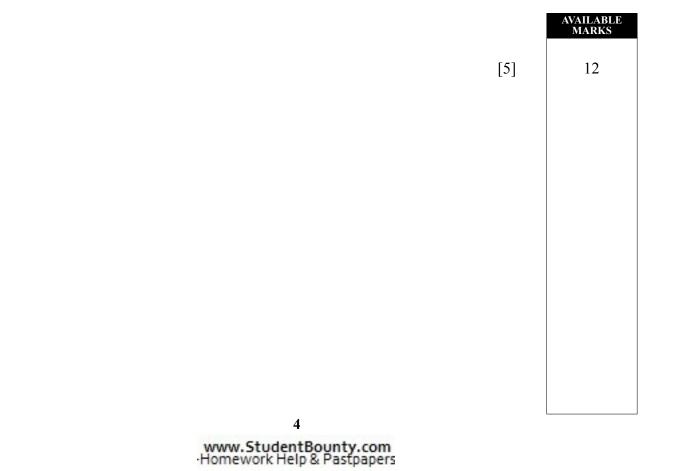
Janet Legg is the owner of the business and the person who has decided to introduce a computer system. For these reasons she should be the first person that the analysts talk to.

Interviewing all staff would take a long time – some of them carry out the same role – i.e. two secretaries and four chiropodists – so is it really necessary to interview all of them?

Documentation should be reviewed earlier in the process as it will then give the analysts a chance to see where and how the documentation is used within the organisation. Documentation also provides a useful starting point for the analyst to acquire background information.

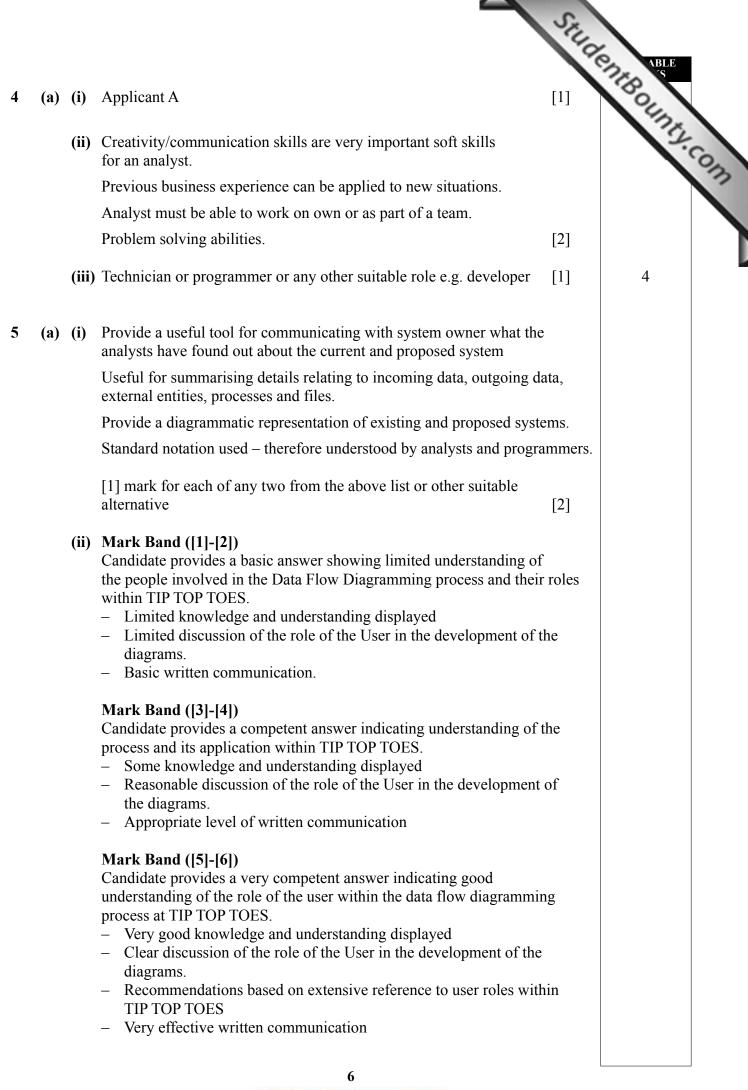
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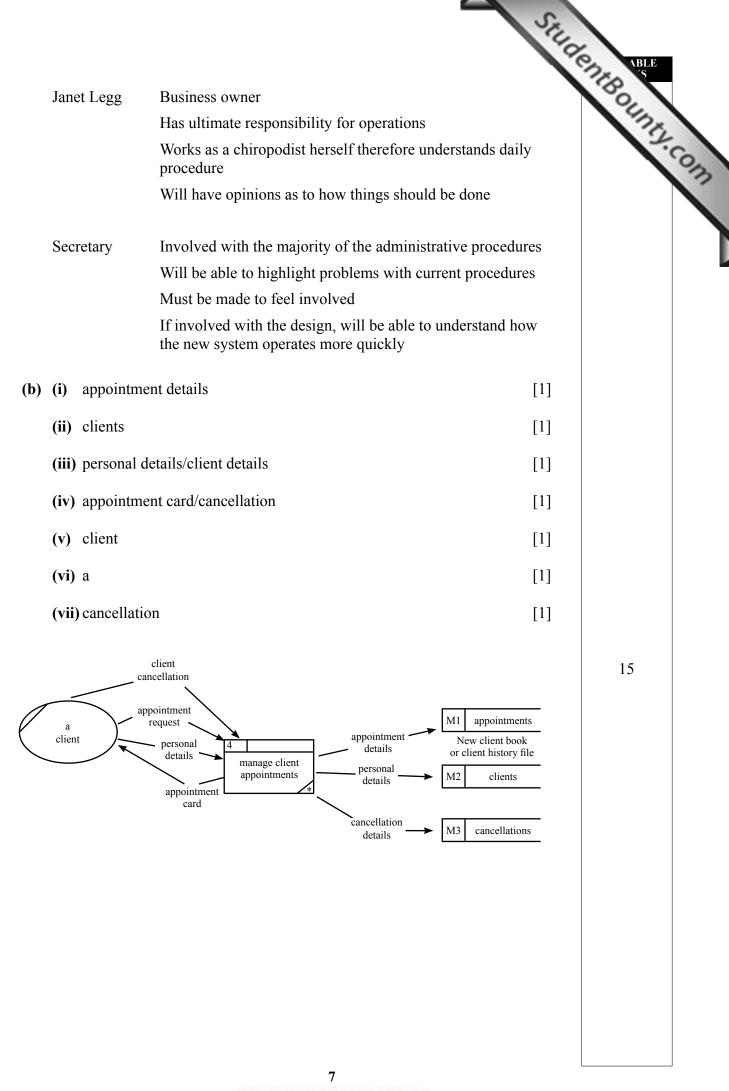
| | | | | 5 | Aud | |
|---|--------------------|----------------------|----------------------|------------------------|---------------------|-----|
| (b) | | | | · | CINEOU | 5- |
| Question | Weekly Schedule | Supplier Receipts | Apponitment books | Client history file | Stock order book | 2. |
| How many staff are on duty at any time? | 1 | | | | | [1] |
| How often are stock orders placed? | | | | | 1 | [1] |
| How many suppliers do TIP TOP TOES have? | | 1 | | | | [1] |
| What is the most popular day/time for appointments? | | | 1 | | | [1] |
| What details are recorded about each client? | | | | 1 | | [1] |

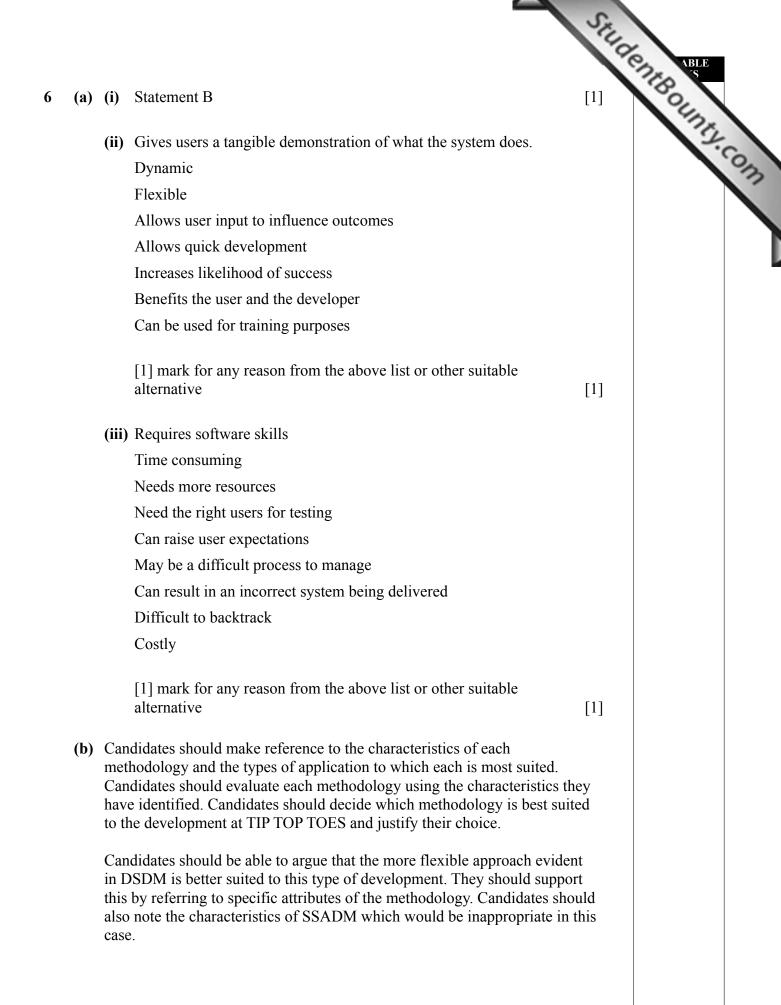


| | | | | | Ste | Suppliers |
|--|---------------------|----------|------------|------------|-----------|-----------|
| 3 (a) | | | | | | 11BOU |
| | | People | e Involved | | | |
| Activities | Janet Legg | Analysts | Users | Programmer | Customers | Suppliers |
| Providing data through fact finding activities | (√) | | 1 | | 1 | (√) |
| Creating data models | (can be omitted) | 1 | 1 | | | |
| Deciding which options within feasibility study to implement | 1 | | | | | |
| Putting the system specification into practice | | | | 1 | | |
| Testing the new system | (√) | 1 | √ | √ | | |

AVAILABLE MARKS [5] (b) chiropodists therapist secretary [1] mark for each of any two from the above list [2] 7 5







Mark Band ([1]-[2])

StudentBounty.com Candidate provides a basic answer showing limited understanding of each methodology.

- Limited knowledge and understanding displayed _
- Limited reference to specific characteristics _
- Limited discussion and evaluation of the two methods and their application at TIP TOP TOES
- Basic written communication _

Mark Band ([3]-[4])

Candidate provides a competent answer indicating understanding of the methodologies.

- Some knowledge and understanding displayed
- Reasonable discussion and evaluation of the two methods and their _ application to TIP TOP TOES.
- Reasonable reference to specific characteristics. _
- Appropriate level of written communication _

Mark Band ([5]-[6])

Candidate provides a very competent answer indicating good understanding of the two methodologies.

- Very good knowledge and understanding displayed _
- Clear discussion and evaluation of the two methods and their application to TIP TOP TOES.
- Very effective written communication

| | SSADM | | DSDM |
|---|--|---|--|
| 1 | Has a top down approach. | 1 | Highly suited to business applications. |
| 2 | Generates specific documentation at each stage. | 2 | High level of User involvement. |
| 3 | Is controlled by the systems analyst. | 3 | Systems can be broken down into small steps so that different tasks can be achieved at the same time. |
| 4 | Covers most of the life cycle from feasibility study to system design. | 4 | Used in situations where a working system is required in a short space of time. |

9

| 7 (a) TRUE/FALSE | | | | |
|--|------------|-----|-----|--|
| | TRUE/FALSE | | | |
| Each supplier can supply many items of stock | TRUE | [1] | | |
| Each item of stock can be ordered many times | TRUE | [1] | | |
| A supplier can only receive orders for one product | FALSE | [1] | | |
| TIP TOP TOES only has one supplier | FALSE | [1] | [4] | |

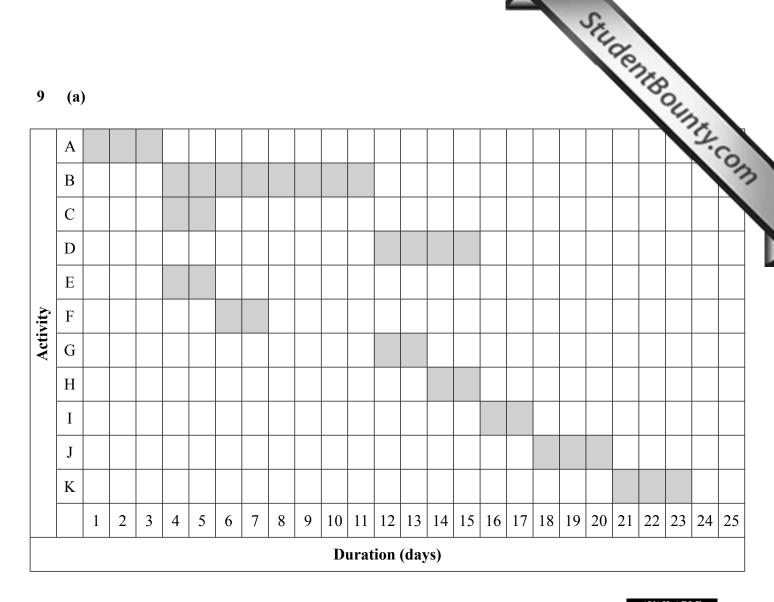
(b)

| Field Name | Data Type/ Size | Comments | Sample Data |
|-----------------------|--|---|----------------------|
| Supplier Code | autonumber | Primary key – automatically allocate a number | 100 |
| Supplier name | Must be greater than 19 Text, 30 | NONE | Wholesale Cosmetics |
| Supplier Address | Text, 50 | NONE | 56, Lurgan High Road |
| Post code | Text, 8 | Input mask >LL00 0LL | BT90 8TR |
| Supplier Telephone | Greater than 11 Text, 12 | NONE | 028 91348991 |

12

| 8 Problem Example 1 Example 2 | | | | | |
|-------------------------------|--|--|--|--|--|
| Problem | Example 1 | Example 2 | | | |
| Data entry | Forename and surname should be separate fields | Address details should be divided out – street, town, post code | | | |
| Inconsistent layout | Buttons in different positions | Logo in different positions | | | |
| Use of Colour | Different coloured backgrounds | Required fields have different colours on each screen. | | | |

[4]



| (| a) | [1] | mark for anal | ootivity | correctly placed |
|---|------------|-----|---------------|----------|------------------|
| (| a) | | mark for each | activity | correctly placed |

(b) 23 days or 23

AVAILABLE MARKS

[11]

[1]

| (c) | | 22 |
|---|--|-----|
| EVENT | ІМРАСТ | |
| Hardware arriving two days late | No effect | [1] |
| Analyst who was writing documentation off sick for three days | Activities I, J and K will all be pushed on by 3 days – therefore overall project time will increase by 3 days. 3 days late. | [1] |
| Janet Legg taking two days holiday | No effect | [1] |
| Hardware arriving six days late | This will mean that activity F will be pushed forward by 6 days but there is sufficient slack on this activity and so this will not impact on overall project duration. | [1] |

16

[4]

| | | 2 |
|--|-------------------------|-----|
| | | |
| 10 | | |
| ACTIVITY | TYPE OF TEST | |
| Check that total calculation appears correctly on customer receipt | Program testing | [1] |
| Check that backup occurs automatically when database is closed each evening | System testing | [1] |
| Check that chiropodist is able to create a new client file | Acceptance testing | [1] |
| Check that stock report flags those products where stock level is less than re-order level | Program testing | [1] |
| Check that rescheduled appointments appear on the correct staff member's appointment list | System/ program testing | [1] |
| Check that a new user is added correctly to the system | System testing | [1] |

6

[6]

| 11 (a) | | | | | | |
|---|--|--|--|--|--|--|
| QUESTION | REASON FOR QUESTION | | | | | |
| Could you close the business for a few days? | This would mean that they don't need the system working for a few days and so will have time to iron out any bugs – could allow for either direct or parallel. | | | | | |
| Would you be prepared to employ extra staff during the changeover period? | Would allow for a parallel changeover as there is extra work involved with working two systems. | | | | | |
| Would you be prepared to introduce the stock control module of the new system before the appointment module? | This would allow for a phased implementation as each part of the new system could be introduced separately. | | | | | |

(b) Mark Band ([1]-[2])

Candidate provides a basic answer showing limited understanding of the possible changeover strategies and how they could be used by TIP TOP TOES.

- _ Limited knowledge and understanding displayed.
- Limited reference to characteristics of a range of changeover strategies. _
- Limited reference to advantages and disadvantages of each strategy.
- Limited justification for choice of strategy. _
- Basic written communication.

Mark Band ([3]-[4])

Candidate provides a competent answer indicating understanding of the techniques and their application to TIP TOP TOES.

- Some knowledge and understanding displayed. _
- Reasonable reference to specific characteristics.
- Reasonable discussion and evaluation of a range of strategies and their _ application to the implementation at TIP TOP TOES.
- Reasonable discussion and justification of the choice of strategy.
- Appropriate level of written communication

Mark Band ([5]-[6])

Candidate provides a very competent answer indicating good understanding of the range of strategies and their application to TIP TOP TOES.

- Very good knowledge and understanding displayed. _
- Relevant reference to specific characteristics of each strategy.
- Clear discussion and evaluation of the strategies and their application to _ the development at TIP TOP TOES.
- Appropriate discussion and justification of the choice of strategy with alternative options being suggested depending on answers which may have been received.
- Very effective written communication

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