

**GCE AS**

**Applied Information and  
Communication Technology**

**January 2009**

**Mark Scheme**

Issued: April 2009



**NORTHERN IRELAND GENERAL CERTIFICATE OF SECONDARY EDUCATION (GCSE)  
AND NORTHERN IRELAND GENERAL CERTIFICATE OF EDUCATION (GCE)**

**MARK SCHEMES (2009)**

**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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*Rewarding Learning*

**ADVANCED SUBSIDIARY (AS)  
General Certificate of Education**

**January 2009**

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**Applied Information and  
Communication Technology**

**Assessment Unit AS 2**

*assessing*

**Unit 2: Software Applications and Tools**

**[A3J21]**

**MONDAY 12 JANUARY – FRIDAY 16 JANUARY**

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**MARK  
SCHEME**

**DB1 CHILDDDESIGN**

- Correct field name – join date [1]
- Correct data type – date [1]
- Correct format – short date [1]
- Default value – =date() or =now() [2]
- (give 1 mark for other sensible alternative in default value)  
e.g. date() or now()

**TOTAL DB1 [5]**

**DB2 VALIDATION**

- Validation rule [1]
- Validation text [1]

**TOTAL DB2 [2]**

**DB3 RULECHECK**

- Suitable incorrect data entered [1]
- Error message displayed should match that in DB2 [1]

**TOTAL DB3 [2]**

**DB4 RELATIONSHIPS**

- Correct relationship with referential integrity [2]
- (any relationship between GROUP and CHILD) [1]

**TOTAL DB4 [2]**

**DB5 CHILDFORM (Note – two screenshots required)**

- CHILDDDESIGN Form created [1]
- Title [1]
- Correct fields [1]
- Graphic [1]
- CHILDFORM shown opposite [1]

**TOTAL DB5 [5]**



**DB6 ASTHMADESIGN**

Correct fields from CHILD	[1]
Correct fields from PARENT	[1]
No additional fields	[1]
Sorting	[1]
Criteria (*asthma*)	[3]

(asthma – 1)

(asthma\* or \*asthma –2)

**TOTAL DB6 [7]**

**DB7 ASTHMALIST**

Correct records	[1]
One A4 page	[1]

**TOTAL DB7 [2]**

**DB8 GROUPS**

Correct fields (surname, forename, date of birth)	[1]
Correct Title	[1]
Grouping (lose 1 for incorrect grouping)	[2]
Labels removed	[1]
Alphabetical order	[1]
New label added for No in group (number in group)	[1]
No in group calculated	[1]
Overall total displayed at bottom	[1]
One A4 page	[1]

**TOTAL DB8 [10]**

**Total marks for database task DB1:DB8 [35]**

35

**SS1 FREEZE**

Freezepane switched on AB [2]

(wrong column [1])

Correct columns showing A, B, ...at least W [2]

(any other lesser columns [1])

One page landscape printed (or with dialogue box) [1]

**FREEZE [5]**

**SS2 TOTALHOURS**

Correct text in correct cells [3]

(Minor errors [1])

Correct formula showing [1]

Correct values copied below X8 [1]

One page landscape printed (or with dialogue box) [1]

**TOTALHOURS [6]**

**SS3 COLLECTIONS**

=COUNTIF [2]

(=COUNT [1])

Correct range D8:W8 [2]

(other range [1])

Correct values copied below Y8 [2]

(minor error [1])

">0" [1]

**COLLECTIONS [7]**

**SS4 TOTALCHARGE**

X8 [1]

\* [1]

\$C\$3 [2]

+ [1]

Y8 [1]

\* [1]

\$C\$2 [2]

**TOTALCHARGE [9]**

**SS5 MONTHLYTOTAL**

Correct Formula is

=SUM(Z10:Z27) [1]

Two lines inserted

=SUM [1]

Z10:Z27 [2]

**MONTHLYTOTAL [4]**

N.B.

There are alternate formats acceptable.

**SS6 PROFITORLOSS**

Correct Formula is

=IF (C4<C5,"PROFIT", "LOSS")

IF [1]

C4 [1]

< [1]

C5 [1]

PROFIT [1]

LOSS [1]

4 set quotes [1]

**PROFITORLOSS [7]**

N.B. There are alternate formula formats acceptable.

**Total marks for spreadsheet tasks SS1:SS6 [38]**

38

**WP1 SCREENSHOT 1**

- 1 mark Lucidia Calligraphy
- 1 mark size 24
- 1 mark Landscape dialogue box shown [3]

**WP2 CERTIFICATE 2**

- 1 mark correct image
- 1 mark watermark [2]

**WP3 SCREENSHOT 2**

- 1 mark border
- 1 mark 3D
- 1 mark Art [3]

**WP4 CERTIFICATE 4**

- 1 logo
- 1 size/position
- 1 correct text
- 1 line in correct position
- 1 centred text [5]

**WP5 SCREENSHOT 3**

- 1 sort on group ID on merge
- 1 correct fields
- 1 separate lines
- 1 A4
- 1 first name and last name with space
- 1 correct design (three in a row)
- 1 correct merge [7]

**Total marks for wordprocessing tasks WP1:WP5 [20]**

20

**MM1 SCREENSHOT 4**

- 1 mark for correct bulleted list (two columns)
- 1 mark for 'ocean'

**MM1 [2]**

**MM2 SLIDES**

- 1 correct text
- 1 how to create a Master Slide
- 1 content
- 1 handout view – 3 slides
- 1 one A4 page

**MM2 [5]**

**Total marks for multimedia tasks MM1:MM2 [7]**

**AVAILABLE  
MARKS**

7

**Total**

**100**





