

INFORMATION AND COMMUNICATION TECHNOLOGY

0417/02 October/November 2018

Paper 2 Practical Test A MARK SCHEME Maximum Mark: 80

Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the October/November 2018 series for most Cambridge IGCSE[™], Cambridge International A and AS Level components and some Cambridge O Level components.

This syllabus is approved for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

This document consists of **13** printed pages.

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[Turn over

Generic Marking Principles

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

the specific content of the mark scheme or the generic level descriptors for the question the specific skills defined in the mark scheme or in the generic level descriptors for the question the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always whole marks (not half marks, or other fractions).

GENERIC MARKING PRINCIPLE 3:

Marks must be awarded **positively**:

marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate

marks are awarded when candidates clearly demonstrate what they know and can do marks are not deducted for errors

marks are not deducted for omissions

answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

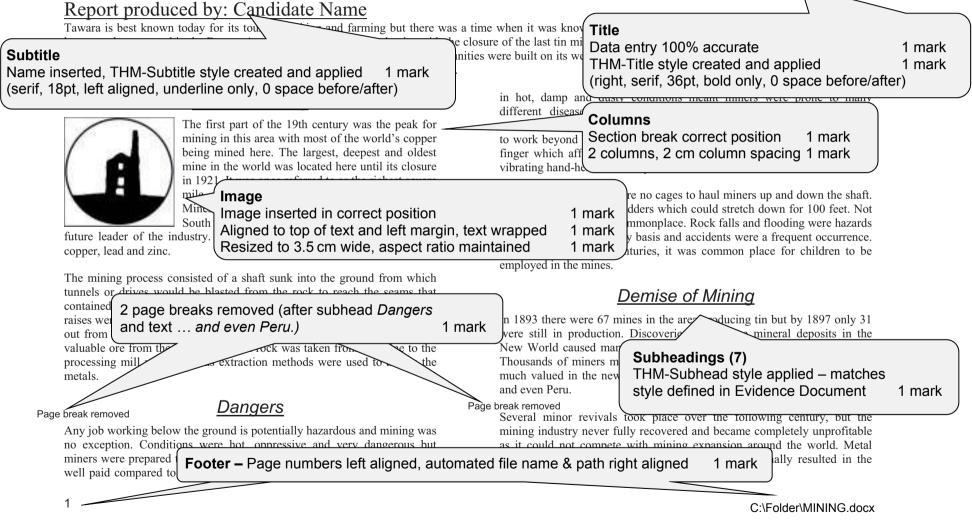
GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

Header Name, Centre number, candidate number right aligned 1 mark

- Name, Centre Number, Candidate Number

History of Tawara Mining



Bullets

collapse of mining at Tawara on an industrial scale. The last working tin mine in Europe closed in 1998.

World Mining

Today the world's top 5 mining countries are:

- Russia iron, nickel, coal and cobalt
- South Africa gold, copper and iron
- USA copper, coal
 - ustralia iron, nickel and bauxite
 - cold, iron, bauxite, copper

Square bullets applied to correct list	1 mark
Bullets indented 1.5 cm from left margin, no space between items	1 mark

importance to rulers and traders. It was alloyed with copper to make bronze

for utensils, weapons and decorations in a material that was far superior to

stone. Table content complete, correct place, no changes to data Tin revolu Year 2000 price per kg column deleted enabled for Nickel row inserted, data 100% accurate wrapping Sort Metal Name ascending order, integrity maintained everyday Top row merged, heading centred over 5 columns steel or al Top row only text bold, italic, 14 pt sans-serif font an import comparati Top row - black background, white text China and Table within column width, text on one line, all borders/gridlines printed The larges THM-Table style created and applied rows 2 to 8 in Portuga (serif, 11pt, centre, no space before/after each row)

Name, Centre Number, Candidate Number

The Future

Over recent times the price of tin in particular has been soaring again due to limited reserves found around the world. Current metal prices are as follows:

BASE METAL PRICE USD							
Metal name	Price/kg	Price/tonne	Price low	Price high			
Aluminium	1.74	1635.01	1.55	1.74			
Copper	5.11	4885.02	4.55	5.63			
Lead	1.88	1817.51	1.63	1.97			
Nickel	11.27	10794.13	8.05	11.48			
Tin	18.77	17965.03	14.01	19.01			
Zinc	2.35	2280.91	1.52	2.36			

1 mark

of metal are still found in Tawara granite and over the <u>ne price is expected</u> to double. Demand has also increased

der in the electronic and computer markets. pgy mean that the cost of extraction has vironment regulations have all improved. nining an attractive proposition and the never been brighter.

eritage Mining

lition range of commemorative bullion of the mining industry. We are offering of purchasing commemorative ingots of Copper (reddish/orange in appearance),) and Zinc (bluish/white in appearance). and is branded with the Tawara hallmark.

All have been sourced from Tawara ore production and are 99.9% pure.

Page layout

 THM-Body style created and applied to all text - serif, 11pt, justified, single line, 0pt before 12pt space after only
 1 mark

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 1 mark

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Card payments in 2017

Name, Centre number, Candidate number

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THM0071	Mr	Alex	Fisher	T188	€120	€144	Debit Card	
THM0006	Mr	Gabriel	Bryan	T160	€135	€162	Debit Card	
THM0090	Miss	Matilda	Craig	T195	€140	€168	Debit Card	
THM0001	Mr	Luke	Kirby	T143	€90	€108	Credit Card	
THM0038	Mr	Patrick	Woodward	T145	€90	€108	Credit Card	
THM0083	Mr	Taylor	Hargreaves	T150	€90	€108	Credit Card	
THM0098	Mr	Henry	Dodd	T156	€91	€109	Credit Card	
THM0095	Mrs	Samantha	Walton	T40	€95	€114	Credit Card	
THM0088	Mrs	Lara	Riley	T153	€105	(
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THM0005	Miss	Ellie	Morley	T159	€121	€145	Credit Card	
THM0009	Mrs	Jennifer	Welch	T161	€125	€150	Credit Car	
THM0096	Ms	Ellie	Jenkins	T155	€130	€156	Credit Car	
THM0009	Mrs	Jennifer	Welch	T198	€130	€156	Credit Car	
THM0010	Mrs	Isabel	Price	T162	€131	€157	Credit Ca	
THM0091	Ms	Gracie	Stokes	T196	€135	€162	Credit Ca	
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VIP Invitation!

Mrs Samantha Bowen York Lane Folkestone HA15 8TR 31-Dec-14 4

Name, Centre number, Candidate number

VIP Invitation!

Ms Ellie Jenkins Wheal Alfred Penzance TR18 3TF 23-Jul-13 4

Name, Centre number, Candidate number

VIP Invitation!

VIP Invitation

Mrs Isabel Price Goodway Glasgow CA4 1JK 02-Sep-10 6

Name, Centre number, Candidate number

VIP Invitation!

VIP Invitation

Ms Katie Rees Tailtrees Croydon CR1 2HO 05-May-08 4

Name, Centre number, Candidate number

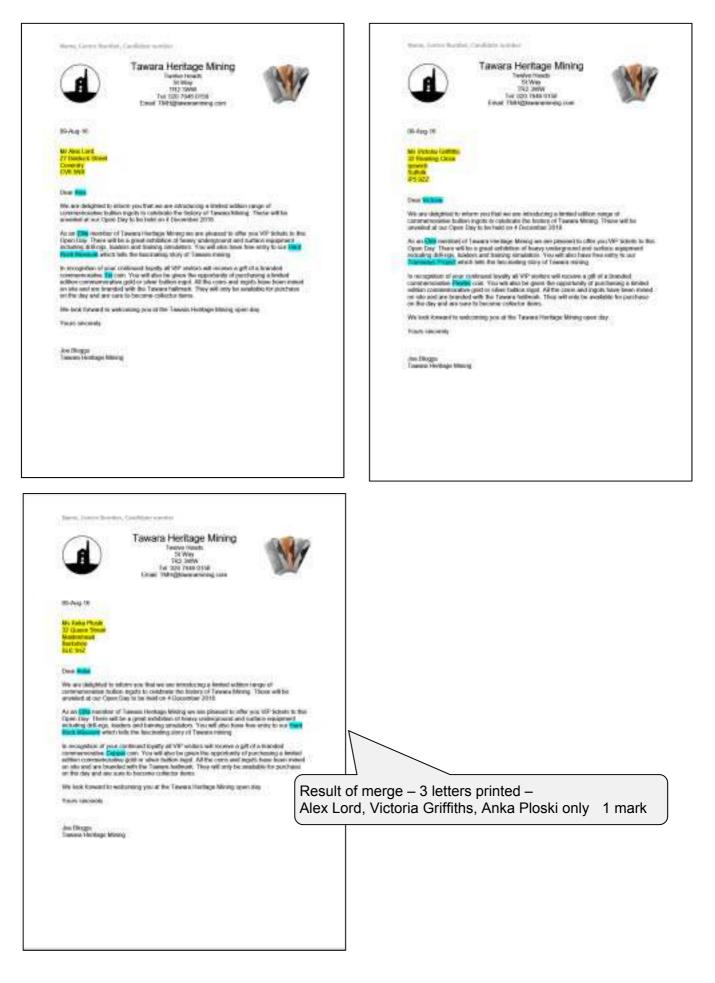
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Mr Joshua Sumn Coombe House Tewkesbury CR2 03-Jun-05 3	5702A	Mrs Jennifer Welch Largeglen Glasgow CA18 1BT 31-Dec-14 5	
Name, Centre nu	mber, Candidate number	Name, Centre number, Candidate numbe	
Mr Sean Weils Lowerhill Drive	VIP Invitation!	Select records (7) Memb_Type is Adult or Family Memb_Date is <01/01/2015, Tin is >=3 Sort ascending on Last_Name	1 mark 1 mark 1 mark
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https://xtremepape.rs/

MAIL MERGE

	Tawara Heritage Mining Twelve Heads St Way TR2 3WW Tet: 020 7946 0158 Email: TMH@tawaramining.com
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Dear First_Name*	
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our aBonusa which tells t In recognition of your con commemorative aReward limited edition commemo mined on site and are bra purchase on the day and	the fascinating story of Tawara mining. Intinued loyalty all VIP visitors will receive a gift of a branded the coin. You will also be given the opportunity of purchasing a brative gold or silver bullion ingot. All the coins and ingots have been anded with the Tawara halfmark. They will only be available for a re sure to become collector items. boming you at the Tawara Heritage Mining open day.
Yours sincerely	
Yours sincerely Joe Bloggs Tawara Heritage Mining	Name replaces Candidate Name Name, Centre number and candidate number in the header 1 ma
Joe Bloggs	•

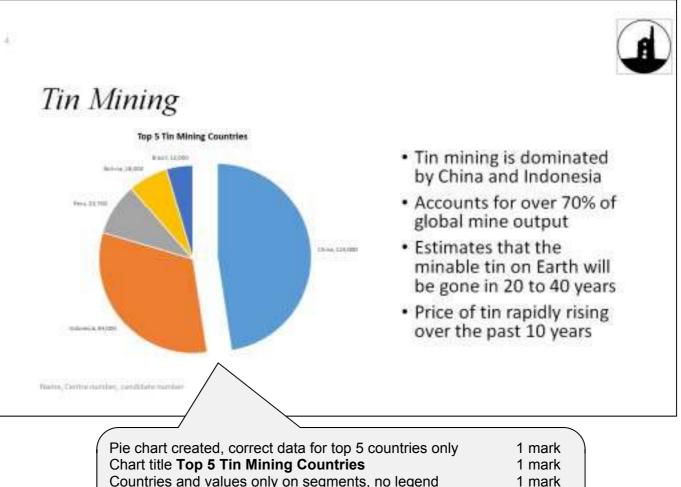
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Task 5 – Presentation



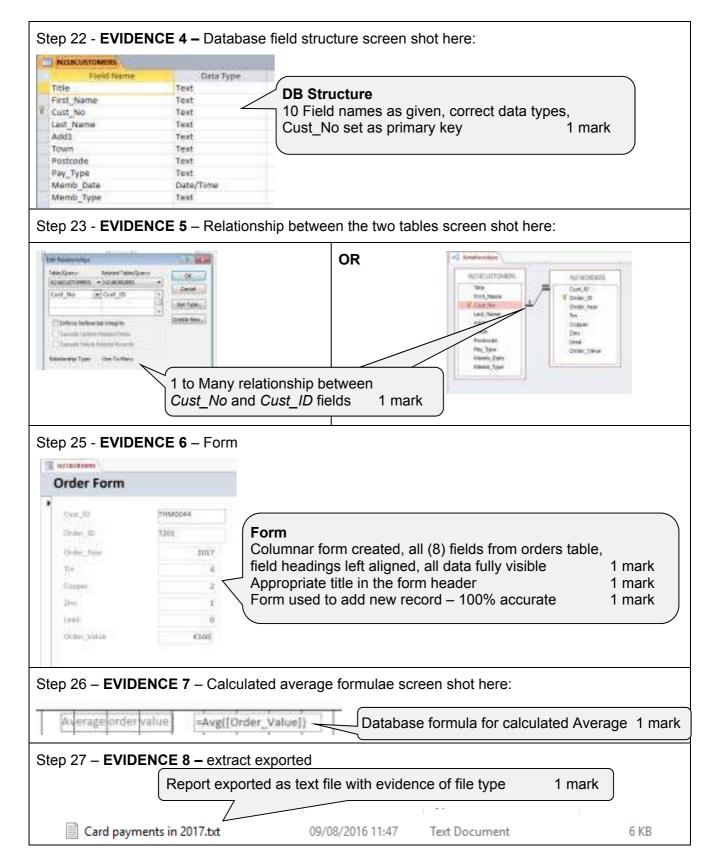
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Evidence Document

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Step 29 – EVIDENCE 9 – AO1	
The Customers table contains a primary key. Explain why the Last_Name field would no appropriate as a primary key:	t be
(a) data not unique/people may have the same last name	1 mark
When adding data to a field in the Customers table, it would be easier for a user to select a list.	data from
Identify another advantage of selecting data from a list:	
(b) Speeds up data entry/reduces data entry errors	1 mark
Identify two fields that would be most suitable for setting up as a list selection (c) Two from: Pay_Type	
Memb_Type Title	2 marks
Step 30 – EVIDENCE 10 – date field screen shot here: Evidence of field for today's date, correct format dd-MMM-y	/y 1 mark
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Step 34 – EVIDENCE 11 – Mail merge selection method screen shot here:	
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Step 43 – EVIDENCE 12

Tawara are currently backing up their data onto a tape drive system. They are considering backing up onto the cloud.

Evaluate in your own words the use of the cloud to back up data compared to their tape drive system. Recommend the most appropriate back up storage for Tawara Heritage Mining to use.

This is a comparison question (responses must include both cloud versus tape)

Benefits of cloud

- access to files and data anywhere at any time vs access to tape physical location
- reduced hardware/software costs as there is no hardware
- only pay for the storage you use, on a tape system you have to buy a brand new tape
- more fault tolerance greater chances of recovering data from raided/mirror cloud storage
- access to data on cloud is faster than tape as tape may need to come from off-site store/direct access to storage within the cloud vs sequential access on tape
- storage capacity may be unlimited on the cloud vs capacity of storage limited on tape

Drawbacks of cloud

- concerns over security of data/multiple copies, don't know where data is stored, tape systems are more secure
- ownership of data, data on tapes is fully owned by you
- need internet access to update/access files, tapes you don't/data restrictions through ISP
- pay monthly subscription to cloud storage provider/ongoing cost [max 3 marks]

Recommendation

[1 mark]