

Cambridge Technicals IT

Unit 2: Global information

Level 3 Cambridge Technical in IT
05838 – 05842 & 05877

Mark Scheme for January 2024

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This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by examiners. It does not indicate the details of the discussions which took place at an examiners' meeting before marking commenced.

All examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the report on the examination.

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MARKING INSTRUCTIONS**PREPARATION FOR MARKING****RM ASSESSOR**

1. Make sure that you have accessed and completed the relevant training packages for on-screen marking: *RM Assessor Online Training*; *OCR Essential Guide to Marking*.
2. Make sure that you have read and understood the mark scheme and the question paper for this unit. These are posted on the RM Cambridge Assessment Support Portal <http://www.rm.com/support/ca>
3. Log-in to RM Assessor and mark the **required number** of practice responses (“scripts”) and the **number of required** standardisation responses.

YOU MUST MARK 5 PRACTICE AND 10 STANDARDISATION RESPONSES BEFORE YOU CAN BE APPROVED TO MARK LIVE SCRIPTS.

MARKING

1. Mark strictly to the mark scheme.
2. Marks awarded must relate directly to the marking criteria.
3. The schedule of dates is very important. It is essential that you meet the Batch 1 and Batch 2 (100%) deadlines. If you experience problems, you must contact your Team Leader (Supervisor) without delay.
4. If you are in any doubt about applying the mark scheme, consult your Team Leader by telephone or by email.
5. **Crossed Out Responses**
Where a candidate has crossed out a response and provided a clear alternative then the crossed out response is not marked. Where no alternative response has been provided, examiners may give candidates the benefit of the doubt and mark the crossed out response where legible.

Short Answer Questions (requiring only a list by way of a response, usually worth only **one mark per response**)

Where candidates are required to provide a set number of short answer responses then only the set number of responses should be marked. The response space should be marked from left to right on each line and then line by line until the required number of responses have been considered. The remaining responses should not then be marked. Examiners will have to apply judgement as to whether a 'second response' on a line is a development of the 'first response', rather than a separate, discrete response. (The underlying assumption is that the candidate is attempting to hedge their bets and therefore getting undue benefit rather than engaging with the question and giving the most relevant/correct responses.)

Short Answer Questions (requiring a more developed response, worth **two or more marks**)

If the candidates are required to provide a description of, say, three items or factors and four items or factors are provided, then mark on a similar basis – that is downwards (as it is unlikely in this situation that a candidate will provide more than one response in each section of the response space.)

Longer Answer Questions (requiring a developed response)

Where candidates have provided two (or more) responses to a medium or high tariff question which only required a single (developed) response and not crossed out the first response, then only the first response should be marked. Examiners will need to apply professional judgement as to whether the second (or a subsequent) response is a 'new start' or simply a poorly expressed continuation of the first response.

6. Always check the pages (and additional lined pages if present) at the end of the response in case any answers have been continued there. If the candidate has continued an answer there then add an annotation to confirm that the work has been seen.
7. Award No Response (NR) if:
 - there is nothing written in the answer space

Award Zero '0' if:

- anything is written in the answer space and is not worthy of credit (this includes text and symbols).
8. The RM Assessor **comments box** is used by your team leader to explain the marking of the practice responses. Please refer to these comments when checking your practice responses. **Do not use the comments box for any other reason.**

If you have any questions or comments for your team leader, use the phone, the RM Assessor messaging system, or e-mail.

9. Assistant Examiners will email a brief report on the performance of candidates to your Team Leader (Supervisor) by the end of the marking period. Your report should contain notes on particular strength displayed as well as common errors or weaknesses. Constructive criticism of the question paper/mark scheme is also appreciated.


















10. For answers marked by levels of response:

To determine the level – start at the highest level and work down until you reach the level that matches the answer

To determine the mark within the level, consider the following

Descriptor	Award mark
On the borderline of this level and the one below	At bottom of level
Just enough achievement on balance for this level	Above bottom and either below middle or at middle of level (depending on number of marks available)
Meets the criteria but with some slight inconsistency	Above middle and either below top of level or at middle of level (depending on number of marks available)
Consistently meets the criteria for this level	At top of level

11. Annotations - These are the annotations to be used when marking Unit 2:

Annotation	Meaning	Annotation	Meaning
	Tick – correct answer		Omission mark
	Cross – incorrect answer		Highlight
	Plus – use for positives		Max
	Minus – use for negatives		Vague
	Unclear		Too vague
	Level 1		Repeat
	Level 2		Noted but no credit given
	Level 3		Not relevant
	Benefit of doubt		
	Blank Page		

12. Subject-specific Marking Instructions

INTRODUCTION

Your first task as an Examiner is to become thoroughly familiar with the material on which the examination depends. This material includes:

- the specification, especially the assessment objectives
- the question paper
- the mark scheme.

You should ensure that you have copies of these materials.

You should ensure also that you are familiar with the administrative procedures related to the marking process. These are set out in the OCR booklet **Instructions for Examiners**. If you are examining for the first time, please read carefully **Appendix 5 Introduction to Script Marking: Notes for New Examiners**.

Please ask for help or guidance whenever you need it. Your first point of contact is your Team Leader.

Section A – PHIR International Removal Company				
Question		Answer	Marks	Guidance
1	(a)	<p>The identification and justification of the information format of the webpage to include:</p> <ul style="list-style-type: none"> • Dynamic (1st) • The website contains an interactive form (1) which customers can complete to request a quote (1) • When customers complete/ submit the online form (1) the contents are cleared / no other customer can see the details (1) • Any other valid suggestion 	3 (LO1.6)	<p>1 mark for identification - Correct Answer Only (CAO)</p> <p>2nd & 3rd marks for justification</p>
1	(b)	<ul style="list-style-type: none"> • The information is input by the customers (1) who provide all the details required by the form (1) • Data is gathered directly by PHIR (1) not sourced from outside (1) • Example (1) e.g. name / address / departure date / destination country • Any other valid suggestion 	3 (LO5.1)	<p>Up to 2 marks for a complete explanation</p> <p>1 mark for an example</p>
2	(a)	<ul style="list-style-type: none"> • Portable (1) • Light(weight) (1) • Small (1) • Own power supply / no power cable needed (1) • Task specific (1) • Can transmit data wirelessly / connect to a network(1) • May include a screen to show information in the barcode (1) • Any other valid suggestion 	2 (LO1.3)	<p>1 mark for each of 2 characteristics</p>

Section A – PHIR International Removal Company				
Question		Answer	Marks	Guidance
2	(b)	<p>A description of an advantage & disadvantage of using handheld devices to include:</p> <ul style="list-style-type: none"> • Advantage • The device can be used anywhere in the warehouse (1) as it does not need cables / wires (1) • The device will be small / portable / light (1) so staff can easily carry it around (1) • It uses batteries (1) so a power supply isn't needed to use it (1) • Connectivity will be automatic (1) so the data from the barcode will automatically be imported into the database (1) • Any other valid suggestion • Disadvantage • If the device uses batteries for power (1) the batteries may run out meaning barcodes cannot be scanned (1) • Connectivity could be lost (1) meaning data from barcodes will not be imported into database (1) • If the device is dropped (1) it could break (1) • The device could be mis-placed (1) as it is small / portable (1) • Used wirelessly so will need a connection (1) to save the barcode data (1) • Cost (may be high) (1) as many may be needed (1) • Any other valid suggestion 	4 (LO1.4)	<p><i>Up to two marks for each of two descriptions</i></p> <p><i>Read whole answer & mark to candidates advantage</i></p>

Section A – PHIR International Removal Company				
Question		Answer	Marks	Guidance
2	(c)	<p>The identification and justification of the information style to include:</p> <ul style="list-style-type: none"> • Boolean (1st) • (The barcode field is) either / only (1) on or off / active or inactive (1) • The field is set to inactive before the boxes are put in the container (1) and set to active when they are packed (1) • Any other valid suggestion 	3 (LO2.1)	<p>1st Mark – Identification of information style</p> <p>2nd / 3rd Marks – justification of information style.</p> <p><i>The information style must be correct before the justification marks can be awarded.</i></p> <p><i>Read whole answer and mark to candidate's advantage.</i></p>

Question	Answer	Marks	Guidance
3*	<p>A discussion of the benefits & limitation of using emails to include:</p> <p>Benefits</p> <ul style="list-style-type: none"> • Emails are delivered extremely fast when compared to traditional post. • Emails can be sent 24 hours a day, 365 days a year. • Webmail means emails can be sent and received from any device, anywhere in the world, that has an internet connection • Cheaper than using traditional post • Emails can be sent to one person or a group • An audit trail can be kept • Attachments can be sent e.g. a form detailing the approximate date of arrival / barcode details / details of packing boxes • Any other valid suggestion <p>Limitations</p> <ul style="list-style-type: none"> • The recipient needs access to the Internet to receive email. • Viruses are easily spread via email attachments • Phishing • No guarantee the mail will be read until the user logs on and checks their email. • Possible incompatibility between system for opening attachments • Emails may go into junk / spam folder and be deleted without being seen • Lack of security leading to the possibility of emails being intercepted • Any other valid suggestion 	10 (LO3.2)	<p>Mark band 3 (7 - 10 marks) The learner has shown a detailed level of understanding by discussing more than one benefit and limitation of using email. Relevant examples will be used to support discussion and ideas will be expressed clearly and fluently. <i>There is a well-developed line of reasoning which is clear and logically structured. The information presented is relevant and substantiated.</i></p> <p>Mark band 2 (4 – 6 marks) The learner has shown a good level of understanding by explaining at least one benefit and/ or limitation of using email. Descriptions may concentrate on one benefit or limitation, with, at the lower end of the mark band, limited depth. Some examples will be used to support discussion which may not be relevant and may at times detract from fluency of narrative. At the bottom of the mark band the candidate may have described a single benefit or limitation to using email. <i>There is a line of reasoning presented with some structure. The information presented is in the most part relevant and supported by some evidence.</i></p> <p>Mark band 1 (1 – 3 marks) The learner has identified points relevant to the use of email and ideas will be poorly expressed. Subject specific terminology may be limited or missing. <i>The information is basic and communicated in an unstructured way. The information is supported by limited evidence and the relationship to the evidence may not be clear.</i></p> <p>0 marks Nothing worthy of credit.</p>

Question		Answer	Marks	Guidance
4	(i)	<ul style="list-style-type: none"> Document store (1) 	1 (LO1.6)	Correct Answer Only (CAO)
4	(ii)	<p>Possible advantage to PHIR representative to include:</p> <ul style="list-style-type: none"> The data is secure (1) in an off-site location (1) in case of any disasters / accidents / threats (1) The data can be uploaded by PHIR (1) and stored (1) until required / the container arrives at the destination port (1) The data can be stored (1) before being downloaded (1) and then deleted (1) The PHIR rep can download the data (1) irrespective of their location (1) as long as an internet connection is available / and stored on a personal device until needed (1) Any other valid suggestion. 	3 (LO1.7)	<p>Up to 3 marks for a complete explanation of advantage to PHIR and/or the PHIR local representatives.</p> <p><i>This can be considered for marks even if (i) is incorrect</i></p> <p><i>Read whole answer and mark to candidate's advantage.</i></p>
4	(iii)	<p>Possible disadvantages to PHIR to include:</p> <ul style="list-style-type: none"> Security needs to be maintained (1) on the cloud storage area (1) as documents contain sensitive / personal details of customer (1) Documents may not upload / download (1) correctly meaning extra time (1) has to be spent redoing tasks (1) If there is no internet access (1) the documents cannot be accessed (1) by PHIR / the reps (1) If security details are forgotten / input incorrectly (1) the files / documents cannot be uploaded (1) or accessed by PHIR / the PHIR rep (1). PHIR are reliant on the provider for access (1) If the service 'goes down (1) then documents cannot be accessed (1) PHIR does not control the security (1) which may be lower than required (1) and can lead to a security breach / hacking (1) Any other valid suggestion 	3 (LO1.8)	<p>Up to 3 marks for a complete explanation of disadvantage to PHIR and/or the local representative of PHIR.</p> <p><i>This can be considered for marks even if (i) is incorrect</i></p> <p><i>Read whole answer and mark to candidate's advantage.</i></p>

Question		Answer	Marks	Guidance
5	(a)	<p>The identification and description of two security risks to include:</p> <ul style="list-style-type: none"> • Unauthorised / unintended access to data / hacking (1st) by someone who is not intended / authorised (1) resulting in data breach / leak /use (1) • Accidental loss of data (1st) files / documents are deleted (1) due to human error / equipment failure (1) • Intentional destruction of data (1st) files / documents are deleted (1) by someone with an ulterior motive (1) • Intentional tampering with data (1st) data can be changed (1) to meet the needs of / by an unauthorised person (1) • Any other valid suggestion 	6 (LO6.2)	<p>For two risks:</p> <p>1st Mark – Identification of risk.</p> <p>2nd / 3rd Marks – description of risk</p> <p>The risk must be correct before the description marks can be awarded.</p>
5	(b)	<ul style="list-style-type: none"> • <u>Loss</u> of service and access (1) • <u>Loss</u> of information belonging to customers (1) • <u>Loss</u> of reputation (1) • <u>Loss</u> of trust (1) • <u>Loss</u> of customers (1) • <u>Decrease</u> in revenue / finance (1) • Legal action / prosecution / fines (1) • Any other valid suggestion 	2 (LO6.3)	<p>1 mark for each of 2 impacts</p> <p>Accept decrease as an alternative to loss.</p> <p>DNA threat to national security / loss of intellectual property as these would not apply to PHIR.</p>

Question	Answer	Marks	Guidance
Section B – Triathlon Competition			
6*	<p>A discussion of why the EQA should be considered when creating the entry forms to include:</p> <ul style="list-style-type: none"> • It protects competitors from discrimination • Competitors cannot be treated any differently because of a protected characteristic. • All competitors should be able to access the entry forms • The entry forms must be supplied in a format as requested by the competitor • Questions on the entry form must not be biased towards / against any of the protected characteristics • Any other valid suggestion <p>Protected characteristics:</p> <ul style="list-style-type: none"> • age • disability • gender reassignment • marriage and civil partnership • pregnancy and maternity • race • religion or belief • sex / sexual orientation. 	10 (LO4.1)	<p>Mark band 3 (7 - 10 marks) The learner has shown a detailed level of understanding by explaining why it is important that the EQA is considered for paper AND web based entry forms. The learner is able to provide a clear explanation of more than one reason. Examples used to support discussion may be superficially related to scenario. Subject specific terminology and knowledge will be clearly used to support and inform the discussion. <i>There is a well-developed line of reasoning which is clear and logically structured. The information presented is relevant and substantiated.</i></p> <p>Mark band 2 (4 – 6 marks) The learner has shown a good level of understanding by describing why it is important that the EQA is considered for paper/web based entry forms. The answer may relate to the contents of the entry form and / or the actual creation of the entry form. Descriptions may concentrate on one reason, with, at the lower end of the mark band, limited depth. Some examples may be used to support discussion but may not be relevant and may at times detract from fluency of narrative. <i>There is a line of reasoning presented with some structure. The information presented is in the most part relevant and supported by some evidence.</i></p> <p>Mark band 1 (1 – 3 marks) The learner has identified generic points relevant to the EQA with ideas poorly expressed. There may be little, or no, reference to the context. Subject specific terminology may be limited or missing. The information is basic and communicated in an unstructured way. The information is supported by limited evidence and the relationship to the evidence may not be clear.</p> <p>0 marks Nothing worthy of credit.</p>

Question		Answer	Marks	Guidance
7	(a)	<p>Identification and justification of the classification of information to include:</p> <ul style="list-style-type: none"> • Sensitive / Personal (1st) <ul style="list-style-type: none"> ○ Information that should not be generally available (1) ○ This information can be used to identify a person (1) ○ This information could cause harm if released (1) example e.g. identity theft (1) ○ Information that is protected (1) against unwarranted disclosure (1) ○ Access should be safeguarded. (1) ○ Any other valid suggestion • Public (1st) <ul style="list-style-type: none"> ○ Will be used to identify the competitor (1) when the competition is being held (1) ○ Can be seen by all competitors / public (1) when entry / results list is released (1) ○ Any other valid suggestion 	4 (LO2.2)	<p>1st mark for identification Up to three marks for justification.</p> <p>Do not accept Private</p>

Question		Answer	Marks	Guidance
7	(b)	<p>A description of valid & reliable including an example to include:</p> <p>Valid:</p> <ul style="list-style-type: none"> • The data collected fits the need (1) • The data is on time / up to date (1) and accurate / correct (1) • Example (1) e.g. name / contact details / age / entries are received before the closing date • Any other valid suggestion <p>Reliable:</p> <ul style="list-style-type: none"> • The data is correct (1) as it has been provided by the competitor (1) • Example (1) the class entered (will be correct for the age of the competitor) • Any other valid suggestion 	6 (LO2.3)	<p><i>Up to 2 marks for each description</i></p> <p><i>1 mark available for an example relating to the competitor details for valid & reliable.</i></p> <p><i>Correct = right</i></p>

Question		Answer	Marks	Guidance
7	(c)	<p>Identification and description of one advantage and one disadvantage of using a spreadsheet to include:</p> <p>Advantage:</p> <ul style="list-style-type: none"> • Different worksheets/ tables can be used (1st) for the different classes (1) example e.g girls under 18, men 19 – 50 and over 55's. (1) • Use of calculations / functions/formula (1st) can reduce errors (1) when collating large amount of competitors times (1) • Cells can be protected (1st) so structure of spreadsheet can be set up in advance (1) and will produce the same results each time (1) • Use of calculations/functions formula (1st) for accurate (1) results (1) • Any other valid suggestion <p>Disadvantage:</p> <ul style="list-style-type: none"> • If incorrect figures / times are input (1st) against the wrong competitor(1) then the results will be incorrect (1) • If the functions / formulae are set up incorrectly (1st) then calculations / results (1) will be incorrect (1) • If not backed up regularly (1st) then data may be lost (1) and competitors may not get results (1) • Manual input (1st) so errors could be introduced (1) and take time (1) • Any other valid suggestion 	6 (LO2.1)	<p>For one advantage and one disadvantage:</p> <p>1st mark – identification 2nd & 3rd marks – description</p> <p>Read whole answer and mark to candidate's advantage.</p>

Question			Answer	Marks	Guidance
7	(d)	(i)	<ul style="list-style-type: none"> • DPA (1) • GDPR (1) 	1 (LO4.1)	<i>Ignore the year if provided.</i>
7	(d)	(ii)	<p>An explanation of one consequence of breaking the legislation to include:</p> <ul style="list-style-type: none"> • Fines may be issued (1) which means a reduction (1) in profit from the event (1) • Prison sentence / charged with offences / e.g sued (1) leading to decrease in reputation (1) so competition may not happen again (1) • Reduction in reputation (1) people may not enter future events (1) as they do not trust the organisers (1) • Any other valid suggestion. 	3 (LO4.1)	<p><i>Up to three marks for a complete explanation.</i></p> <p><i>Allow mix & match</i></p> <p><i>Read whole answer and mark to candidate's advantage.</i></p>
8	(a)		<p>A description of the term integrity to include:</p> <ul style="list-style-type: none"> • Data is maintained / up-to-date (1) so that it is accurate / complete / fit-for-purpose (1) • Data that is changed / edited (1) may decrease level of integrity (1) • Any other valid suggestion. 	2 (LO6.1)	<i>Up to two marks for a complete description.</i>
8	(b)		<p>An explanation of how a password can maintain the integrity to include:</p> <ul style="list-style-type: none"> • Only people (1) who have the password can access (1) and edit / steal the data (1) • Security is a requirement of the DPA (1) • A password will stop/ reduce (1) unauthorised access to the data (1) and editing / stealing the data (1) • Any other valid suggestion 	3 (LO6.6)	<p><i>Up to three marks for a complete explanation</i></p> <p><i>Read whole answer and mark to candidate's advantage.</i></p>

Question		Answer	Marks	Guidance
8	(c)	<ul style="list-style-type: none"> Securing (1) 	1 (LO2.4)	Accept Secure = BOD DNA Security
9		<p>The identification of the data analysis tool with a justification to include:</p> <ul style="list-style-type: none"> Trend and pattern identification / Data visualisation (1st) A pattern can be seen (1) relating to the fastest competitors (1) in each event in each class (1) A comparison (1) can be identified across different classes (1) for each class / gender (1) Charts / graphs / example (1) showing trends / patterns (1) for interpretation of the results (1) Any other valid suggestion 	4 (LO3.5)	<p>1st mark – identification</p> <p>Up to 3 marks for the justification</p> <p>Read whole answer and mark to candidate's advantage.</p>

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