

Mark Scheme for June 2012

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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.

OCR will not enter into any discussion or correspondence in connection with this mark scheme.

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Any enquiries about publications should be addressed to:

OCR Publications
PO Box 5050
Annesley
NOTTINGHAM
NG15 0DL

Telephone: 0870 770 6622
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E-mail: publications@ocr.org.uk

Annotations

Annotation	Meaning
✓ / x	

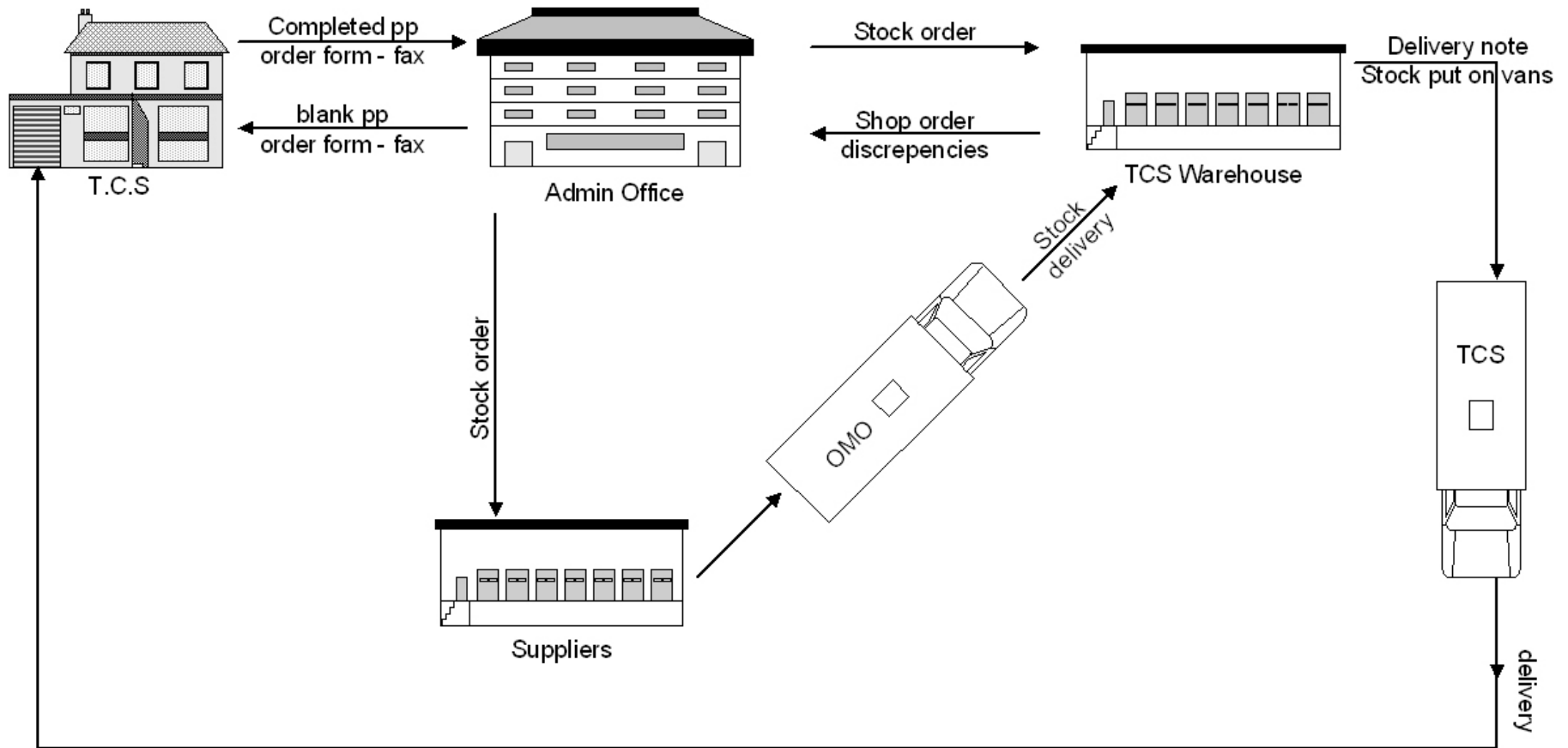
Subject-specific Marking Instructions

There are 100 marks available for this test. They are allocated as follows:

- Tasks 2, 3 and 4 30
- Section A of the test paper 50
- Section B of the test paper 20

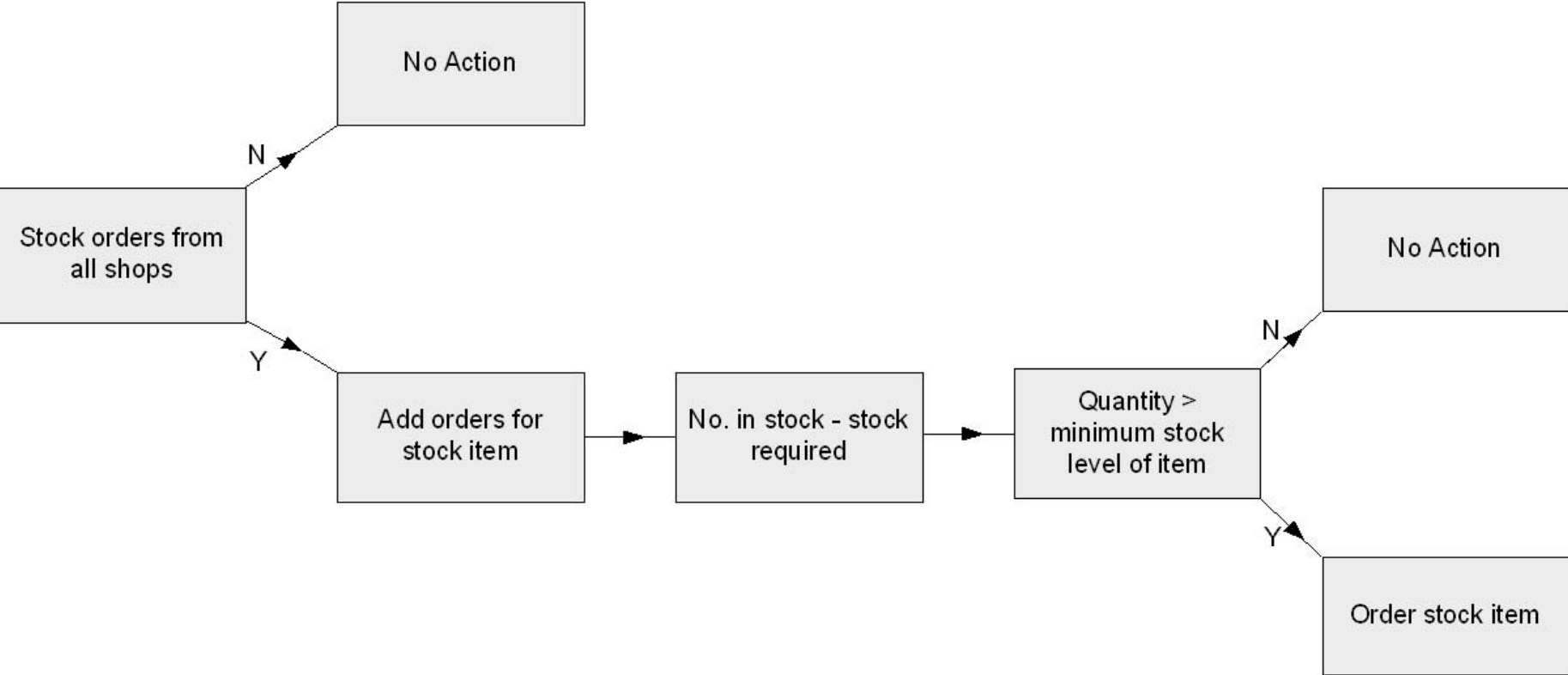
Task	Answer	Marks	Guidance								
2	<p>12 marks available for rich picture diagram (See Example 1)</p> <p>1 mark available for each of:</p> <ul style="list-style-type: none"> • shop (manager) clearly identified – S • warehouse (manager) clearly identified – W • supplier clearly identified – SU • administration office/staff clearly identified – A • logical order of processes – L • consistency – C <p>1 mark for each correct flow of information – F (Max 6)</p> <p>Evaluation – 3 marks available</p> <table border="1"> <thead> <tr> <th>Mark</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Some comment on method(s) used to develop RPD</td> </tr> <tr> <td>2</td> <td>A strength / weakness in method(s) used identified</td> </tr> <tr> <td>3</td> <td>A strength and weakness in method(s) used identified</td> </tr> </tbody> </table>	Mark		1	Some comment on method(s) used to develop RPD	2	A strength / weakness in method(s) used identified	3	A strength and weakness in method(s) used identified	15	
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1	Some comment on method(s) used to develop RPD										
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Task 2
Example



Task		Answer	Marks	Guidance
3		1 mark available for consistency 1 mark for <u>all</u> flows labelled 1 mark for each decision having 2 exit flows (max 2) 1 mark for each no action from decision boxes (max 2) 1 mark for each process (max 4)	10	

Task 3
Example



Task		Answer	Marks	Guidance
4		<p>1 mark each for (Max 5) :</p> <ul style="list-style-type: none">• use of colour/font/white space• logical order of information• identification of TCS / shop name and location• supplier details including unique identifier• stock item• current shop stock levels• shop reorder level• quantity required• all data/information shown is appropriate with no omissions/extra data required	5	

SECTION A

TCS – The Corner Shop


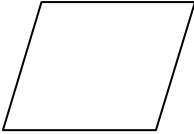
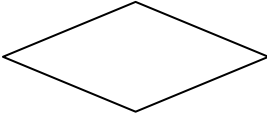
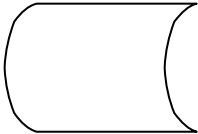


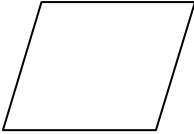
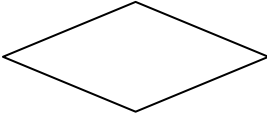
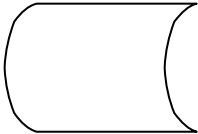


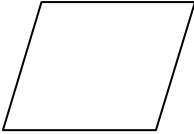
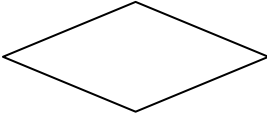
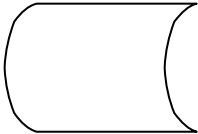

Question		Answer	Marks	Guidance
1	(a)	<p><i>2 from, max 2 marks per purpose</i></p> <p>To increase the security of information (1st) held on the computers (1). To produce reports for the owner (1st) example of report (1) Reduce errors (1st) all calculations automated (1) Solve the problems of the current system (1st) example given (1)</p>	4	
	(b)	<p><i>4 from:</i></p> <p>To ensure all problems in current system have been identified (1) To make sure all requirements of the new system have been defined (1) To act as a reference point (1st) to ensure that the new system meets the requirements of TCS (1) or the new system will not be appropriate for TCS (1)</p>	4	
2		<p><i>2 from:</i></p> <p>Have access to the supplier system (1) to access all supplier details (1) Details of orders (1) to be recorded (1)</p>	2	
3		<p><i>4 from:</i></p> <p>Transferred to computer (1) Supplier contact details (1) and the stock they supply (1), be accessible through a unique supplier number (1)</p>	4	

Question		Answer	Marks	Guidance
4	(a)	<p><i>3 from:</i></p> <p>Implemented in evenings (1st) when TCS is closed (1) to minimise disruption (1)</p>	3	
	(b)	(i) Software (1)	1	Correct Answer Only
	(b)	(ii) <p><i>3 from:</i></p> <p>Vendor (1st) of applications software / operating system (1) to be kept the same (1) newer versions (1)</p>	3	To be awarded marks for this part of the question b(i) must be correct.
5		<p><i>2 from, max 2 marks per problem:</i></p> <p>Stock is counted once a day (1) after daily orders have been despatched (1) If urgent orders are needed (1) stock is not counted again (1) Incorrect stock orders are placed (1) as Incorrect stock levels held on spreadsheet (1)</p>	4	

Question	Answer	Marks	Level of Response
6	<p>Responses may include:</p> <p>Advantages Is developed to meet the needs of the business To meet specified requirements Functions are exactly what is required TCS owns the software</p> <p>Disadvantages Very expensive in terms of time and money Need to commission a software team Get support from team but if they go out of business may not get support If analysis incorrect the s/w will not be fit-for-purpose</p>	12	<p>H (9 – 12 marks) Candidates will show a clear understanding of the question and include detailed explanations of at least 2 advantages and at least 2 disadvantages of writing bespoke software.</p> <p>Examples will relate to TCS.</p> <p>The information will be presented in a structured and coherent form. There will be few if any errors in spelling, grammar and punctuation. Technical terms will be used appropriately and correctly.</p> <p>M (5 – 8 marks) Candidates will show an understanding of the question. At least 2 advantages and at least 2 disadvantages of writing bespoke software, are described with some explanation given.</p> <p>Some examples given relate to TCS.</p> <p>The information will be presented in a structured format. There may be occasional errors in spelling, grammar and punctuation. Technical terms will be mainly correct.</p> <p>L (0 – 4 marks) Candidates will demonstrate a limited understanding of the question. Information may be a list of points, with little or no explanations / descriptions. At least 1 advantage and 1 disadvantage will be considered.</p> <p>Examples, if given, may not relate to TCS.</p> <p>Information will be poorly expressed and there will be a limited, if any, use of technical terms. Errors of grammar, punctuation and spelling may be intrusive.</p>

Question		Answer	Marks	Guidance
7	(i)	Data Protection Act	1	Correct Answer Only
	(ii)	Database (1 st) can be relational (1) so updates are global (1) no redundant data (1) queries can be run (1) and saved for future use (1) searches can be carried out (1) using a Primary key / unique supplier number	3	
	(iii)	<i>5 from: MUST be awarded both 1st marks to be awarded further 3 marks</i> Contact/personal/business details will be held (1st) Need to comply with legislation (1st) Need to limit access to the details (1) Can allow prosecution (1) if person found breaking security is found (1) Use of security (1) may limit potential breaches in security (1) Can use physical (1) eg locks on doors (1) to limit access to confidential data (1) Can use logical security (1) eg levels of access (1) to limit access to confidential data (1)	5	
8		<i>4 from:</i> Perfective (1 st) Carried out to enhance the performance of the system (1). Usually undertaken at the request of the users (1) Makes a good system better (1) Does not change the functionality of the system (1)	4	

Question		Answer	Marks	Guidance
9		<p>2 from:</p> <p>Data sources (1) Methods of data capture (1) Data input form / screen layouts (1) validation methods (1) verification methods (1)</p>	2	
10	(a)	<p>2 from:</p> <p>Checks that the data entered into the system (1) is reasonable <u>and</u> in the correct format (1). Validation usually defined in the data dictionary (1) Validation does not prove that the data entered is correct (1) Example (eg Spellchecker) (1)</p>	2	
	(b)	<p>1 from:</p> <p>Data entered twice by user/read back to customer (1) the entries are checked to ensure they are identical (1)</p> <p>The data entered is displayed (1) and the user must check it (1)</p>	2	
11	(a)	<p>4 from:</p> <p>Shows the processes (1st) that take place (1) where/when (1) Divided into columns (1st) showing each entity (within a system) (1) Inputs (1st) shown at the left (1) Outputs (1st) shown at the right (1) Processes shown in appropriate column (1) Can show decisions that take place (1)</p>	4	

Question	Answer	Marks	Guidance												
(b)	<p><i>Any 2 from: symbol and label must match</i></p> <table border="1"> <thead> <tr> <th>Label (1 mark each)</th> <th>Component (1 mark each)</th> </tr> </thead> <tbody> <tr> <td>Process / operation</td> <td>  </td> </tr> <tr> <td>Document/report/form</td> <td>  </td> </tr> <tr> <td>Decision</td> <td>  </td> </tr> <tr> <td>Data Store</td> <td>  </td> </tr> <tr> <td>Flow</td> <td>  </td> </tr> </tbody> </table>	Label (1 mark each)	Component (1 mark each)	Process / operation		Document/report/form		Decision		Data Store		Flow		4	
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Question	Answer	Marks	Level of Response
12	<p>Responses may include:</p> <p>Advantages Staff can maintain jobs Giving practical experience of job Knowledge and skills taught by training provider</p> <p>Disadvantages If skills are specialised may limit choice of training provider Eg if bespoke s/w being used then may not have trainer who knows the software</p>	6	<p>H (5 – 6 marks) Candidates will show a clear understanding of the question and include detailed evaluation including the advantages and disadvantages of the use of day release training method. Candidates provide a conclusion clearly justifying the use/or not of day release training method for training staff in a large organisation. The information will be presented in a structured and coherent form. There will be few if any errors in spelling, grammar and punctuation. Technical terms will be used appropriately and correctly.</p> <p>M (3 – 4 marks) Candidates will show an understanding of the question and include an evaluation including the advantages and disadvantages of the use of day release training method. Evaluation may be limited or one-sided. Candidates provide a conclusion relating to the use/or not of day release training method for training staff in a large organisation. This may be limited in scope or implied. The information will be presented in a structured format. There may be occasional errors in spelling, grammar and punctuation. Technical terms will be mainly correct.</p> <p>L (0 – 2 marks) Candidates will demonstrate a limited understanding of the question. Information may be a list of advantages or disadvantages, with little or no explanations. Information will be poorly expressed and there will be a limited, if any, use of technical terms. Errors of grammar, punctuation and spelling may be intrusive.</p>

OCR (Oxford Cambridge and RSA Examinations)
1 Hills Road
Cambridge
CB1 2EU

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