

#### BUSINESS

9609/22 October/November 2017

Paper 2 Data Response MARK SCHEME Maximum Mark: 60

Published

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Question	Answer					
1	Occasion Cards (OC)					
1(a)(i)	Define the term 'Computer Aided Desig	jn'.		2		
	Knowledge and Application Marks					
	A correct definition		2			
	A partially correct definition		1			
	No creditable content		0			
	<ul> <li>Some idea of 'computer aided', i. IT/software/computer-programme (allow automated) – do not allow tautology</li> <li>i.e. some idea of the 'design' eler modify, optimise, 2D/3D models, 'design' on its own as this is a tau</li> </ul>	ocess done by onically/virtually/technology er' <i>on its own</i> as this is a – To create, analyse, draw, se, plan etc. – do not allow				
	Exemplar	Marks	Rationale			
	To use IT to create models	2	Both elements simply defined			
	Where software is used to create designs	2	Both elements and 'create designs' is good enough			
	To design 2D drawings	1	2D gives an idea of 'design' even though the word design has also been used.			
	Where computers are used to make designs for the business to use	0	Neither elements defined			

Question	Answer						
1(a)(ii)	Briefly explain the	e term 'mass customi	sation'.			3	
	Award one mark fo	r each point of explana	ation:				
	C Example or i.e. can inve	some other way of sh olve the use of IT, low	owing go cost solu	od understanding, tion to making etc.	1 mark		
	B Understand production	ling of 'mass', i.e. unde lines/flow production/a	erstanding ssembly	g of the use of line etc.	1 mark		
	A Understand create diffe orders etc.	ling of customisation, i rentiated products, uni	.e. the us que prod	e of techniques to ucts, to customer	1 mark		
	<ul> <li>Using production production</li> <li>Can add v</li> <li>Make prod</li> <li>Note: the C<u>mark</u></li> <li>otherwise a wrong</li> <li>production) could</li> </ul>	duction lines to make a techniques to produce alue to a product by a lucts unique to each cu <u>is dependent on gain</u> gunderstanding of m gain the majority of	variation e differen dding diffe ustomer b <u>ing both</u> ass cust the mark	n in products. Using t tiated products. erences and custom but with low cost. <u>A and B marks firs</u> tomisation (e.g. ma ts.	mass isation. St because Iss		
	Exemplar		Marks	Rationale			
	Using a product differentiated pro using machinery	ion line (B) to make oducts (A) often / (C)	3	All three elements			
	Where a busine which have are individual custor but have been n line (B). This ke the business (C	ss makes products based on the mer requirements (A) nade on a production eps the cost low for ).	3	All three elements			
	Where lots of dir products (A) are production (B).	fferent types of made using flow	2	A and B mark			
	Making customic customers which	sed products for the n can be low cost.	1	A mark only – do n the C mark unless and B have been a (See Note:)	ot allow <b>both</b> A warded		
	Making lots of p production line v of the business the business ca products to sell.	roducts on a which keeps the costs low and means that n produce lots of	1	B mark only – obvi confusion with mas production (See No	ous ss ote:)		

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Question	Answer									
1(b)(i)	Refer to Tab	ole 1. Calculate t	he curre	nt ratio for 2016.	3					
	Mark Rationale									
	3 marks Correct calculation of the current ratio (ignore any use of \$, % etc.) with or without correct working									
	2 marks	Correct formula identification of	Correct formula (can be implied by the use of figures) <b>and</b> correct identification of both figures (CA and CL)							
	1 mark	Correct formula CL)	or correc	ct identification of both figures (CA and						
	0 marks	No creditable co	ontent							
	Formula:									
	<u>Current asse</u> Current liabi	<u>ets</u> lities								
	Identificatio	on of correct figu	ires:							
	Current asse Current liabi	ets = lities =	\$3 \$4	3m 4m						
	\$3m									
	\$4m = <u>0.75:1 or 0.75 or 3/4</u>									
	Common answers									
	Answer		Marks	Rationale						
	<u>\$3m</u> \$4m × 10	0 = 75%	3	Although the candidate has not got the correct answer it can clearly be seen by the working that they would have got the correct answer but have gone one stage too far.						
	75% (no	working)	0	Without working there is no way to know where this figure came from						
	<u>\$4m</u> \$3m = 1.3	33	2	Formula is wrong (inverted) but correct identification of figures and then a correct calculation based on their own figures (OFR)						
	<u>1.33 (no</u>	working)	0	Without working there is no way to know where this figure came from						
	Current li Current a	abilities = 4 issets = 3	1	Correct identification of both figures						
	<u>Current a</u> Current li	abilities	1	1 mark for formula						

Question			Answer			Marks
1(b)(ii)	Explain <u>one</u> way potential invest	/ in which t or.	the information in Table	1 might be (	useful to a	3
	Level Knowledge and Application Marks					
	2b <b>APP + APP</b>	Explanation information	on of the use of the accour n in Table 1 to a potential	3		
	2a <b>APP</b>	Identificati informatio	on of the use of the accou n in Table 1 to a potential	nting investor	2	
	1 <b>K</b>	Identificati informatio	on of the use of accountin n – no context	g	1	
	0	No credita	ble content		0	
	Answers could in Sales ar Liquidity Non-cur increase Examples of identification use (K) To decide who invest or not To judge the s	iclude: ind profit ma r has gone of rent liabilitie ed risk is of a ether to	rgin have gone up – good down – increased risk es have doubled – increase <b>Examples of context</b> (APP) Sales and profit margin have gone up	investment ed debt migh Possible e (APPAPP) More sales suggest the will get the back quick	at suggest explanations c/profit may at an investor ir investment er and make	
	To see if the business is likely to be able to repay an investment To see if the business is profitable		Liquidity has gone down Non-current liabilities have doubled The current ratio has decreased	a profit from investment OC may no pay back d may mean company w able to rep investment Increased mean that investment towards pay debt off, no more profit	m their to be able to lebts which that the vould not be ay the t debt may any t is going aying that ot making	

Question	Answer							
1(c)	Analyse <u>one</u> advantage and <u>one</u> disadvantage to OC of using the internet to promote the business.							
		Level	Knowledge and Application (4 marks)	Marks	Analysis (4 marks)	Marks		
		2	Shows understanding of using the internet to promote the business in context	3-4	Good analysis of one advantage <b>AND</b> one disadvantage to OC of using the internet to promote the business in context	4		
					Good analysis of one advantage <b>OR</b> one disadvantage to OC of using the internet to promote the business in context	3		
		1	Shows knowledge of the use of the internet to promote a business	2	Limited analysis of one advantage <b>AND</b> one disadvantage of using the internet to promote a business	2		
			Shows knowledge of the use of the internet in business <b>OR</b> promotion	1	Limited analysis of one advantage <b>OR</b> one disadvantage of using the internet to promote a business	1		
	Li Ai Ta	<i>mited ar</i> nnotate ake a ve /stem. ci	nalysis in context: Marks – advantages on the lef ry open approach to 'pro reation of cards etc.).	<i>limited t</i> <i>t and dist</i> omotion'	o 4 + 2 = 6 advantages on the right to allow for use of the website	e (e.g. CAD		
	<b>P</b>	romotio	in is any activity that s	upports	or encourages a business	activity.		

Question	Answer							
1(c)	<ul> <li>1(c) Answers could include:</li> <li>Advantages         <ul> <li>Cheaper – social and viral marketing is a relatively cheap way of promotion a business and has led to good growth for OC</li> <li>OC has an internet based ordering system, so internet based promotion links in and may increase sales</li> <li>Customers may link/click from an advert straight to the website allowing quick/impulse purchases</li> </ul> </li> <li>Disadvantages         <ul> <li>OC may find it difficult to control social and viral promotion</li> <li>It may not be effective – very difficult to predict trends in fashion/products</li> <li>Fast moving and constantly changing</li> </ul> </li> </ul>							
	Examples of knowledge (K)	Examples of application/context (APP)	Examples of limited analysis (AN)	Examples of good analysis (ANAN) <i>Must be in</i> <i>context (i.e. APP</i> <i>awarded</i> )				
	The internet can reach many people	Greater number of potential customers who may buy cards from OC for special occasions	I his may lead to increased sales	<ul> <li>Increased sales</li> <li>→ more revenue</li> <li>→ more profit</li> </ul>				
	Cheaper to promote	OC is a family business with limited capital	Keeps costs down for OC	Lower costs → may increase capital for expansion				
	Can use internet links to send customers to their website	Using OC's well established social media presence	Increases the number of potential	Increased sales → more revenue → more profit				
		Can link directly to the CAD software	customers					
	Attracts a younger audience	Greetings cards can be targeted at a younger audience	Leading to less competition for OC	Less competition → higher prices → more profit margin→ increased profit				

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Question	Answer						
1(c)	Examples of disadv	antages:					
	Examples of knowledge (K)	Examples of application/context (APP)	Examples of limited analysis (AN)	Examples of good analysis (ANAN) <i>Must be in</i> <i>context (i.e. APP</i> <i>awarded</i> )			
	The internet may not be targetted	Many wasted views of the promotion by people who have no interest in buying greetings cards	This may lead to increased costs for promotion which is wasted	Increased costs → lower profit margin → less profit			
	Open to hackers	OC only sells greeting cards through the internet	Disable OCs ability to make sales	Decreased sales → lower profit/increased chance of loss			
		OC does not have much capital as it is family owned	May not be able to afford the costs of good security	More chance of website being offline → decreased sales → lower profit/increased chance of loss			
	No control of internet marketing	OC relies on social media and viral marketing	Can create a bad reputation	Decreased sales → lower profit/increased chance of loss			
		Greeting card industry requires a good reputation					
	Fast moving/dynamic environment	As opposed to the greetings card market which is well established (i.e. Christmas, special occasions etc.)	May need to be updated regularly which may not be the case with traditional promotion	Increased costs → lower profit margin → less profit			

Question	Answer									
1(d)	Evaluate the owners' decisior limited company.	n to chang	ge the legal structure of OC	to a public	11					
	Knowledge and Application (4 marks)	Marks	Analysis and Evaluation (7 marks)	Marks						
			Justified evaluation based on argument(s) in context	7						
			Developed evaluation based on argument(s) in context	6						
			An evaluative statement based on argument(s) in context	5						
	Shows understanding of changing from a private limited company to a public limited company	3–4	Argument based on the impact(s) of changing the legal structure of OC to a public limited company	3–4						
	Shows knowledge of legal structures	1–2	Limited analysis of TWO (or more) impacts of changing legal structure	2						
			Limited analysis of ONE impact of changing legal structure	1						
	١	No credital	ole content							
	Note: APP marks can be gained from the change from Ltd to PLC without any mention of the business because this is the context given to the candidates Answers could include:									
	Benefits			<b>6</b> 11 1						
	<ul> <li>OC could access more use more traditional ma</li> <li>OC has started to see i equity this may be reve</li> <li>Owners may become y</li> </ul>	capital wr arketing m increased ersed vealthy fro	nich may allow OC to expand ethods non current liabilities – by inc m selling their shares	further and reasing the						
	Drawbacks			с. с.						
	<ul> <li>OC might lose the family atmosphere, reducing the workers motivation</li> <li>OC will need to publish their financial information if they become a plc which may give competitors an advantage</li> <li>Owners may lose their control of OC</li> <li>Owners will need to share profits</li> </ul>									

Question	Answer					
1(d)	К	APP	AN	ANAN	EVAL	
	PLCs can sell shares on the stock market	This opens up a new source of finance for OC (APP)	Which could be used to expand the business (AN)	Which may lead to more sales of greeting cards and profit for OC. (ANAN)	Overall becoming a PLC may be the fastest way for OC to reach its objective of	
	(K)	However anyone could buy the shares because they are now available on the stock market (APP)	Which may lead to a loss of control for the current owners (AN)	Who may limit the amount of shares they want to sell on the stock market and mean that OC does not have much extra capital to fund the expansion (ANAN)	expansion (EVAL – statement) However how many shares the owners make available will depend upon how much they are willing to risk losing control of the business (EVAL – developed) If the expansion can be financed and the owners keep more than 50% of the shares then there is little risk and it is likely to have been a good decision. (EVAL – justified)	

Question	Answer						
2	Nearly New (NN)						
2(a)(i)	Define the term 'inventory'.						
	Knowledge and Application	Marks					
	A correct definition	2					
	A partially correct definition	1					
	No creditable content 0						
	<ul> <li>A correct definition will cover two of the following bullets:</li> <li>Stock</li> <li>Raw materials, work in progress, finished product</li> <li>Used in, or the result of the production process/or demand, to sell</li> <li>Current asset</li> </ul> Note: Inventory is a syllabus term to mean the stock of a b inventory in terms of all the assets owned by a business (in is not rewardable.	s perations – to fulfil future usiness – a definition of e. to take an inventory)					

Question	Answer					
2(a)(ii)	Briefly explain the term 'sole trader'.	3				
	C       One mark for each of the following (up to a maximum of two marks):       1–2 marks         B       • Unincorporated       marks         • Unlimited liability       • No continuity         • No continuity       • No separate legal identity         • Income tax must be paid (not corporation tax)       • Owns all of the profit/responsible for all the losses/takes all the risk         • Shares cannot be sold       • Accounts do not need to be produced/published/made available					
	A       One individual or one person (must be a clear idea of a single person)       1 mark         Note: the B and C marks are dependent on gaining the A mark					
	Exemplar Marks Rationale					
	Owned by one person who has unlimited liability and takes of the profit for themselves.3A, B and C					
	A single owner with no shareholders 3 A, B and C and accounts do not need to be published.					
	A sole trader has unlimited liability and no continuity. It is owned by one person. 3 1t does not matter if the A mark comes after the B and C marks					
	Owned by one person with no shareholders2A and B					
	A sole trader does not have any shareholders 0 No A mark – this could just as easily apply to a partnership.					
	A business that has unlimited liability with no shareholders and no continuity.					
	The person responsible for finance, decision making etc0No understanding of one owner – this could be a manager					

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Question		ŀ	Answe	ər	Marks			
2(b)(i)	Calculate the total profit that Nathan would make if he sold the whole batch of repaired laptop computers.							
	Mark Rationale							
	3 marks	Correct calculation of the correct working	e total	profit (no \$ required) with or without				
	2 marks	Correct calculation of tot revenue (with working)	al cos	ts or correct calculation of total				
	1 mark	Correct formula <b>or</b> correct working)	Correct formula <b>or</b> correct calculation of total variable costs (with working)					
	0 marks	No creditable content						
	Note: allow different fig Formula: Total revenu	an answer of 1500 even oure in the answer (i.e. To ne – total costs = profit	if the otal C	candidate has identified it as a ost = 1500 = 3 marks)				
	Calculations:							
	Total variabl	e costs = $20 \times \pounds 50$ repair	=	\$1000				
	Total costs =	= Purchase cost 20 × £50 repair	=	\$2000 <u>\$1000</u> <b>\$3000</b>				
	50% mark u	p	=	<u>\$1500</u> \$4500				
	Profit		=	<u>\$1500</u>				

## Cambridge International AS/A Level – Mark Scheme **PUBLISHED**

Question	Answer I					
2(b)(i)	Common answers					
	Answer	Marks	Rationale			
	1500 (no working)	3	Allow the answer with or without working and \$ or incorrect working			
	\$2000 + \$1000 = \$3000	2	Working to support that this is the total cost figure			
	3000 (no working)	0	A wrong answer with no working to know where the answer has come from			
	20 × \$50 = \$1000	1	Working to support the calculation of variable costs			
	\$2000	0	A wrong answer with no working to know where the answer has come from			
	50% of \$2000 = \$1000 20 × \$50 = \$1000	2	One error – mark up was calculated on FC not TC OFR			
	So profit = \$0					
	\$2000 20 = \$100 (FC per computer)	2	A route to find total revenue but no profit figure – any valid route to find TR correctly without a correct calculation of profit should be awarded 2 marks as			
	(total cost per computer)		long as there is working.			
	50% of \$150 = \$75 (mark up per computer) \$150 + \$75 = \$225 (price per computer)					
	\$225 × 20 = \$4500 (total selling revenue)					
	\$4500 (no working)	0	A wrong answer with no working to know where the answer has come from			

## Cambridge International AS/A Level – Mark Scheme **PUBLISHED**

Question	Answer					Marks			
2(b)(ii)	Explain <u>one</u> advantage to Nathan of using a cost based pricing strategy.								
	Level	Marks							
	2 (APPAPP)	Explanation of an <u>advantage</u> of using cost based pricing <b>in context</b>			3				
	2 (APP)	Identificati based pric	ion of an <u>advantage</u> of usir cing <b>in context</b>	ng cost	2				
	1 (K)	Identificati based pric	Identification of an <u>advantage</u> of using cost 1 based pricing						
	0	No credita	No creditable content 0						
	Answers could ir	nclude:							
	Examples of identification advantage (H	ns of an ()	Examples of context (APP)	Possible e (APPAPP)	explanations				
	Quick and sin	nple	Nathan is a computer engineer and may not be experienced in running a business.	Therefore Nathan tim	this will save le.				
			Nathan needs to focus on repairing computers not complicated pricing methods.	So Nathan gaining sal business.	can focus on es for the				
	Always leads	to a profit	Each computer has a total cost of \$150	So any prio	ce higher ill result in a				
	Always cover cost of each o	s the full computer		profit for N	athan.				
	Predictable p margin	rofit	Nathan chose a 50% mark-up.	So the mai always equ margin.	rk-up should ual the profit				
				So Nathan certain ma will find ac	can target a rgin that he ceptable.				

Question	Answer					Marks			
2(c)	Ana	Analyse <u>two</u> methods Nathan could use to improve NN's cash flow.							
		Level	Knowledge and application		Analysis				
		2	Shows understanding of <b>TWO</b> methods of improving cash flow <b>in context</b>	4	Good analysis of <b>TWO</b> methods of improving cash flow <b>in context</b>	4			
			Shows understanding of <b>ONE</b> method of improving cash flow <b>in context</b>	3	Good analysis of <b>ONE</b> method of improving cash flow <b>in context</b>	3			
		1	Shows knowledge of <b>TWO</b> methods of improving cash flow	2	Limited analysis of <b>TWO</b> methods of improving cash flow	2			
			Shows knowledge of cash flow <b>or ONE</b> method of improving cashflow	1	Limited analysis of <b>ONE</b> method of improving cash flow	1			
		0	No	creditab	le content				
	One factor analysed in context, max 3 + 3 <b>Note: the focus of the analysis must be on improving cashflow</b> Answers could include:								
	<ul> <li>Could use a cashflow forecast to identify when Nathan needs extra cash</li> <li>Nathan could take a partner (this is contextual)</li> <li>Could arrange credit facilities with suppliers- would the large electrical retailers offer him any credit?</li> <li>If Nathan currently offers credit (unlikely) he could make sure his customers pay on delivery or in advance.</li> <li>Nathan could take out a short term source of finance for times when he needs extra cash to purchase inventory – cost of finance, likelihood of getting finance</li> <li>Take out a long term source of finance to give Nathan access to cash when he needs it – opportunity cost of using finance, cost of finance</li> <li>Keep a low amount of cash tied up in inventory – unlikely to be popular as customers want next day delivery and a range of computers</li> </ul>								

Question	Answer						
2(c)	Examples of methods	Examples of application/context	Examples of possible analysis				
	Arrange credit with suppliers	<ul> <li>Nathan is purchasing from large electrical retailers who may be likely to give him credit.</li> <li>Nathan is an established customer of the large electrical businesses and therefore more likely to get credit.</li> <li>Nathan needs the time this credit would give him to repair the computers</li> </ul>					
	Short term source of finance	Nathan is an established business and may get credit. Nathan is a sole trader and may struggle to get a short term source of finance A short term source of finance	Allow purchase without needing cash → Will not worsen Nathans cashflow position → Less chance of negative cashflow				
		would allow Nathan to purchase the computers without needing a 'buffer' of cash available – he can add in the cost of finance to the price of the computers (i.e. costs plus).	Increase costs of NN → Increase price of a computer → May reduce sales → may reduce profits				

Question	Answer								
2(d)	Recommend which one of the two potential employees Nathan should select. Justify your recommendation.								
	Knowledge and Application (4 marks)	Marks	Analysis and Evaluation (7 marks)	Marks					
			A justified recommendation for Nathan on which potential employee he should select based on the given arguments for selecting Katy and Sahdat	7					
			A developed recommendation for Nathan on which potential employee he should select based on the given arguments for selecting Katy and Sahdat	6					
			An evaluative statement/recommendation based on the given arguments for selecting Katy and Sahdat	5					
	Shows understanding of selection criteria for Katy <b>and</b> Sahdat	4	Argument(s) based on selecting Katy <b>and</b> Sahdat as potential employees for NN	4					
	Shows understanding of selection criteria for Katy <b>or</b> Sahdat	3	Argument(s) based on selecting Katy <b>or</b> Sahdat as potential employees for NN	3					
	Shows knowledge of selection	1–2	Limited analysis of Katy <b>and</b> Sahdat as potential employees	2					
			Limited analysis of Katy <b>or</b> Sahdat as potential employees	1					
	Note: APP, AN and ANAN about Katy should be placed in left hand margin and Sahdat in right hand margin								
	<ul> <li>Katy</li> <li>Lower previous salary</li> <li>Some experience of dealing with electrical retailers (NNs suppliers)</li> <li>Degree – but is this necessary?</li> <li>Younger – but is this a benefit and should Nathan make a decision based on age (legal issues?)</li> <li>Relevant skills and organisation could be useful</li> </ul>								

#### Sahdat

- Higher previous salary does this mean that he will expect more?
- More experience in relevant area
- No qualifications, but are they necessary?
- Older, but could this be a benefit?
- Will his skills of managing employees and communication be any use within NN where he will be the only employee and possibly not customer facing?

Question	Answer						
2(d)	An example of how an answer could develop and how it should be annotated.						
	К	APP	AN	ANAN (one sided)	EVAL		
	Selection is the ability to choose between potential employees for a position. (K) A business can select employees through interviews,	Katy has got some experience working for a large electrical retailer. (APP)	This may help Nathan to negotiate better prices and credit with his suppliers who are the large electrical retailers. (AN)	This is likely to reduce the costs for Nathan of doing business, improve his cashflow and increase his chances of making a profit. (ANAN – Katy)	I would recommend that Nathan chooses Sahdat because better productivity will help Nathan to sell computers quicker and this may help solve his major problem of cashflow. (EVAL – statement)		
	experience, skills etc. (K)	However Sahdat has more experience than Katy in repairing computers but he has	More experience may lead to quicker repairs. (AN)	Quicker repairs could increase the productivity of NN and mean that he can sell more computers, quicker and	However it depends upon whether Nathan feels he can manage Sahdat. (EVAL – developed)		
		been his own boss for the last 10 years. (APP)	However he may not be willing to take instructions from Nathan about what to do. (AN)	gain more profit. (ANAN – Sahdat) If Sahdat cannot take orders then Nathan may find him difficult to manage and this may lead to conflict and lower productivity for NN. (ANAN – Sahdat)	this productivity boost is unlikely to happen and Katy might be the better option as she may be easier to manage. (EVAL – justified)		
	Note: only two evaluation ma	ANANs are nee	eded (one for Ka ill attempt more	ity and one for Sal analysis to give d	ndat) to enable epth to their		

evaluation. Make sure you are only awarding analysis to the appropriate level – if a candidate has tried to cover lots of different points but only got to limited analysis (AN) each time, then this does not build an argument. Please look out for quality of analysis rather than quantity.