

Cambridge International AS & A Level

BUSINESS

Paper 3 Case Study MARK SCHEME Maximum Mark: 100 9609/34 May/June 2021

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 May/June 2021 series for most Cambridge IGCSE[™], Cambridge International A and AS Level components and some Cambridge O Level components.

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.

Social Science-Specific Marking Principles (for point-based marking)

1	•	mponents using point-based marking: Point marking is often used to reward knowledge, understanding and application of skills. We give credit where the candidate's answer shows relevant knowledge, understanding and application of skills in answering the question. We do not give credit where the answer shows confusion.						
	From this it follows that we:							
	a b	DO credit answers which are worded differently from the mark scheme if they clearly convey the same meaning (unless the mark scheme requires a specific term) DO credit alternative answers/examples which are not written in the mark scheme if they						
	С	are correct DO credit answers where candidates give more than one correct answer in one prompt/numbered/scaffolded space where extended writing is required rather than list-type						
	d	answers. For example, questions that require <i>n</i> reasons (e.g. State two reasons). DO NOT credit answers simply for using a 'key term' unless that is all that is required. (Check for evidence it is understood and not used wrongly.)						
	е	DO NOT credit answers which are obviously self-contradicting or trying to cover all possibilities						
	f	DO NOT give further credit for what is effectively repetition of a correct point already credited unless the language itself is being tested. This applies equally to 'mirror statements' (i.e. polluted/not polluted).						
	g	DO NOT require spellings to be correct, unless this is part of the test. However spellings of syllabus terms must allow for clear and unambiguous separation from other syllabus terms with which they may be confused (e.g. Corrasion/Corrosion)						
2	Pre • •	esentation of mark scheme: Slashes (/) or the word 'or' separate alternative ways of making the same point. Semi colons (;) bullet points (•) or figures in brackets (1) separate different points. Content in the answer column in brackets is for examiner information/context to clarify the marking but is not required to earn the mark (except Accounting syllabuses where they indicate negative numbers).						
3	Ca • •	Iculation questions: The mark scheme will show the steps in the most likely correct method(s), the mark for each step, the correct answer(s) and the mark for each answer If working/explanation is considered essential for full credit, this will be indicated in the question paper and in the mark scheme. In all other instances, the correct answer to a calculation should be given full credit, even if no supporting working is shown. Where the candidate uses a valid method which is not covered by the mark scheme, award equivalent marks for reaching equivalent stages. Where an answer makes use of a candidate's own incorrect figure from previous working, the 'own figure rule' applies: full marks will be given if a correct and complete method is used. Further guidance will be included in the mark scheme where necessary and any exceptions to this general principle will be noted.						

4 Annotation:

- For point marking, ticks can be used to indicate correct answers and crosses can be used to indicate wrong answers. There is no direct relationship between ticks and marks. Ticks have no defined meaning for levels of response marking.
- For levels of response marking, the level awarded should be annotated on the script.
- Other annotations will be used by examiners as agreed during standardisation, and the meaning will be understood by all examiners who marked that paper.

Question			Answer		Marks	
1	Analyse how TT might be affected by an increase in interest rates in the Eurozone.					
	Level	Knowledge 3 marks	Application 2 marks	Analysis 5 marks		
	2	3 marks Knowledge of interest rates and one or two impact(s) of an increase	2 marks Two points applied	4–5 marks Good use of theory and/or reasoned argument to explain impact(s)		
	1	1–2 marks Knowledge of interest rates and / or one impact of an increase or knowledge of two impacts of an increase	1 mark One point applied	1–3 marks Some use of theory and/or reasoned argument to explain impact(s)		
	•	Ige o of interest rates: Cost of borrowing / rewa Part of the external envir Interest rates used by ce	onment.	ontrol inflation.		
	•	Inding of an increase in i Increases the rewards fo Contractionary monetary Decrease in consumer d Exchange rate impact Decisions about borrowin	or saving and th policy by the E emand	e cost of borrowing		
		ion ase material / context Luxury wooden toys CAM machine investmer Potential investment in jo Special order to US Imports from outside Eur 40% of exports to US Exports to Far East	pint venture			

Question	Answer	Marks
1	 Analysis Higher interest rates increase incentives for consumers to save, may spend less on luxury toys Higher interest rates will reduce discretionary income of consumers as the cost of mortgages and loans will increase. Therefore, spending on goods and services will decrease. Borrowing will be more expensive, which may affect CAM machine and other investment decisions TT could earn more interest on any bank balances and increase current assets Higher interest rates may cause Euro to appreciate against other major currencies: So exported toys will be more expensive in terms of other currencies Any imported toy materials or components will be cheaper for TT if the Euro appreciates TT's toys are luxury items, probably aimed at high income consumers and also relatively price inelastic, so small price rises caused by currency appreciation may not have a big impact. 	

Question	Answer	Marks
2(a)	Refer to Appendix 1 and lines 35–37. Calculate the impact on TT's profit if the special order from the US toy retailer is accepted.	6
	Formulas (1 mark total if no relevant calculations) Contribution per unit = selling price – variable cost Total contribution = contribution per unit × no of units Profit = $TR - TC$ Unit contribution Selling price \$30 Production cost \$24 Packaging \$2.50 Transport \$1.50 (1) Total VC per unit = \$28 (3) Contribution per unit: \$30 - \$28 = \$2 (4) Total contribution \$2 × 50 000 = \$100 000 (6) Profit will increase by \$100 000 (6)	
	Totals ApproachTotal revenue: $50,000 \times $30 = $1500000(1)$ Total VC = $$28 \times 50000 = $1400000(4)$ Total contribution = \$100000(6)Profit will increase by \$100000(6)	
	Profit based on use of different VC calculations Just used VC of production: Unit contribution = $30 - 24 = $ \$6 (2) Profit = $6 \times 50\ 000 = $ \$300 000 (4)	
	VC + packaging Variable cost = 26.5 (2) Unit contribution 30 – 26.50 = \$3.50 (3) Profit = \$175 000 (5)	
	Including FC Production VC + FC Unit contribution = \$3 (1) Profit = \$150 000 (3)	
	VC + Packaging + FC Variable cost = \$29.50 (1) Unit contribution = \$0.50 (2) Profit = \$25 000 (4)	
	All VC + FC Variable cost = \$31 (2) Contribution per unit: \$30 - \$31 = (\$1) (3) Total contribution (\$50 000) (5) Profit will decrease by \$50 000 (5)	
	OFR	

Question			Answe	ər		Marks	
2(b)	Refer to your answer to part <u>(a)</u> and other information from the case. Advise TT whether to accept the special order from the US toy retailer.						
	Level	Knowledge 2 marks	Application 2 marks	Analysis 4 marks	Evaluation 4 marks		
	2	2 marks Two relevant points	2 marks Two points applied	3–4 marks Good use of theory and/or reasoned argument	3–4 marks Good judgement shown		
	1	1 mark One relevant point	1 mark One point applied	1–2 marks Some use of theory and/or reasoned argument	1–2 marks Some judgement shown		
	 Co Pro Imp Ca Application Use of results Diff Lan Nin Ne Oro Ca Co Inc 	ing of factors in ntribution ofit pact on other c pacity utilisatio n Its to 2(a) / cas ference in price rge order of 50 ne-month time f ed to double and der is from bigg pacity currently ntribution redu	ustomers n e study informa e \$30 rather tha 000 units frame for delive nual output gest toy retailer / 50% so will do ced from \$7 to nd for toy trains	ery in US ouble to 100% fo	r toy trains		
	 Thi the Re prio be Ca ord Ion Sal 	rate of growth duced price of ces. Therefore, dissatisfied if lo pacity issues – lers/customers g-term orders i	of TT. \$5 could lead to reducing profi- ower prices not effectively close . Could result in reducing reven to large retailer	to other retailers t for TT or causir t given. ses off current ca	ag other retailers to apacity to other stomers and loss of stomers.		

Question	Answer	Marks
2(b)	 Evaluation Supported recommendation to either accept or reject the special order Elements that the evaluation/judgement might depend on: Is TT capable of meeting the order within the nine-month deadline? Significance of other factors that may also influence decision Opportunity to gain greater access to a large retail market Current utilisation of only 50% Sales seem to be increasing generally, why accept this order at the lower price? 	

Question		Answer						
3	whether TT	Refer to Appendix 3 and other information from the case. Discuss whether TT's directors made the right decision in choosing candidate / as the new Marketing manager.						
	LevelKnowledge 2 marksApplication 2 marksAnalysis 6 marksEvaluation 							
	2	2 marks Two relevant points	2 marks Two points applied	4–6 marks Good use of theory and/or reasoned argument	4–6 marks Good judgement shown			
	1	1 mark One relevant point	1 mark One point applied	1–3 marks Some use of theory and/or reasoned argument	1–3 marks Some judgement shown			
	 Record cord Factors that Lea Abition Sal Exponential <!--</th--><th>cruitment – fino cruitment proco npare candida</th><th>ess – advertisin tes e the decision a team nagement ence</th><th></th><th>nd interviewing to</th><th></th>	cruitment – fino cruitment proco npare candida	ess – advertisin tes e the decision a team nagement ence		nd interviewing to			
	 Bot Ca Ca Ca Hig Ca ma Ca 	ndidate Y less th have market ndidate Y may ndidate Y is an ndidate X has her current sa ndidate X has rket previously	need training t nbitious experience of v lary of candida worked for a co s experience w	o understand the vorking as a mar	keting manager et children's			

Question	Answer	Marks
3	 Analysis Chains of reasoning highlighting factor(s) in making the choice Discussion of current/future marketing strategies, role of marketing manager Candidate will need to be adaptable to niche or possible mass market for toys Candidate Y has less experience so may need more support to grow into the role. Candidate Y may be cheaper to employ reducing additional labour costs associated with creating the role. Candidate Y is ambitious and looking for promotion, this might mean that they are more likely to leave after a short period of time causing disruption. However, it might mean the candidate is more motivated and works harder to impress senior managers. Candidate X has knowledge of market for children's clothes – related products. Is therefore more likely to have knowledge and experience of similar product launches. Candidate X has more experience of management so might be more effective in the short term. Candidate X may be a good team player and therefore may integrate better into TT's management team. 	
	 Evaluation Supported judgement as to whether candidate Y was the right choice. Elements that the evaluation/judgement might depend on: Extent to which it is important for TT to keep costs down. Future marketing plans may be very different, either for joint venture or merger – which candidate may be more adaptable? Timescale: how soon can the candidate start the job? Significance of other factors that may also influence decision. Which candidate was best 'on the day'? Importance of experience. Cost of training required and time to fit into role. Limited information – were candidates asked about marketing ideas? What is the most important factor? Either candidate could probably do the job, was candidate Y chosen to fit with existing team? 	

Question	Answer						
4(a)	Refer to Apper equipment:	Refer to Appendix 2. Calculate, for the purchase of the CAM equipment:					
4(a)(i)	the payback p	eriod		2			
	Year	Net cash flows (\$m)	Cumulative cash flow (\$m)				
	0	(2.5)	(2.5)				
	1	0.4	(2.1)				
	2	0.6	(1.5)				
	3	0.7	(0.8)				
	4	0.7	(0.1)				
	5	0.8	0.7				
	6	\$0.9	0.				
	Payback during Year 5 $0.1 0.8 \times 12 = 1.5$ Therefore, during month 2 of year 5 4 years 1.5 months OR 4 years 46 days OR 4.125 years OR 4 years 2 months (2) During Year 5 (1) Some correct cumulative net cash flows beyond Year 0 (1)						

Cambridge International AS & A Level – Mark Scheme **PUBLISHED**

Question	Answer					
4(a)(ii)	the accounting rate of return (ARR)			4		
	Rationale	Content	Marks			
	Correct answer with or without units. Working not required Alternative formula	10.67% OR 10.8% OR 10.4% 21.33% OR 21.6% OR 20.8%	4			
	Annual profit (units not necessary) OR OFR based on error in ARR calculation – original investment not deducted	1.6m / 6 = 0.266m OR 0.27m Allow 0.26m 0.683 / 2.5 × 100 = 27.3%	3			
	– profit not divided by 6	0.683 / 1.25 × 100 = 54.6% 1.6 / 2.5 X 100 = 64%				
	Profit OR OFR for annual profit – original investment not deducted OR original investment not deducted and not divided by 6	4.1m – 2.5m = 1.6m 4.1m / 6 = 0.683m 4.1 / 2.5 × 100 = 164%	2			
	Total cash inflows OR Correct formula	4.1m (annual profit / capital cost) × 100 OR (annual profit / average investment) × 100	1			
	No creditable content		0			

Question			Answe	ər		Marks
4(b)	Refer to your answers to part <u>(a)</u> and other information from the case. Recommend whether TT should purchase the CAM equipment or outsource toy train production. Justify your recommendation.					
	Level	Knowledge 2 marks	Application 2 marks	Analysis 5 marks	Evaluation 5 marks	
	2	2 marks Two relevant points made	2 marks Two points applied	4–5 marks Good use of theory and/or reasoned argument	4–5 marks Good judgement shown e.g. well supported conclusion	
	1	1 mark One relevant point made	1 mark One point applied	1–3 marks Some use of theory and/or reasoned argument	1–3 marks Some judgement shown	
	cap Pay ger AR Nei Fac - - - - - - - - - - - - - - - - - - -	estment apprai bital purchase. yback looks at herated by the R looks at the ither method co ctors influencin Cost Impact on qua Availability of Length of pay Profit yback during Y sitive return of e (OFR) rchase of mach tsourcing also intry. erest rates risin ference to othe duction cost of	the month/yea investment pay average yearly onsiders the tin g decision suc ality finance /back ear 5 £0.26m per yea ine will decrea reduces costs g financial data train sets \$24 h outsourcing p	ne value of mone h as: ar – 10.7% comp use production co due to production due to production a, such as calcula – 20% = \$19.20 plus safety stand	et cash flow hal sum. ey parison with bank osts by 20% h in 'low cost' ation of reduced	

Question	Answer	Marks
4(b)	 Analysis Payback during Year 5, after which positive cash flows will contribute to profit. Interest rates rising – could increase cost of loan and reduce return Have TT got any internal sources of finance? Purchase of CAM will increase capacity of the company long-term Possible quality issues with outsourcing plus safety standards for toys and impact on demand and TT's reputation Flexibility due to outsourcing but maybe communication problems with producer 3000 kilometres away (developing country?) Subcontracting is flexible as TT can increase/decrease orders according to demand. Loss of control over quality could result in reputation damage if toys do not meet quality standards thus reducing sales Outsourcing company may benefit from economies of scale and therefore have lower prices thus enabling TT to make greater profit Outsourcing company has to make a profit. This could result in a higher price per unit to TT 	
	 Evaluation Decision may depend on value after six years / speed of depreciation. How accurate is the figure given? Other factors to consider e.g. NPV as this considers time value of money Depends on availability of finance Will increased demand continue? If unsure outsourcing may be better as less risk 	

Question			Answe	er		Marks
5	Discuss whether TT should introduce Total Quality Management (TQM).					16
	Level	Knowledge 2 marks	Application 2 marks	Analysis 6 marks	Evaluation 6 marks	
	2	2 marks Two relevant points	2 marks Two points applied	4–6 marks Good use of theory and/or reasoned argument	4–6 marks Good judgement shown	
	1	1 mark One relevant point	1 mark Point applied	1–3 marks Some use of theory and/or reasoned argument	1–3 marks Some judgement shown	
	the Imp No No Ne Ch Application Cu Qu Imp Pre Olo Wo Analysis In t cur and Qu ma TQ par the o Ta par the o Tra and	M makes every ir area. pact on quality. need for qualit ed for training ange in culture n rrent quality co ality inspectors portance of toy emium wooden d established w orkers complain this case, the c mbersome – ins d increases cos ality is very implication ality is very implication to f the product e wages of qua d enabling TT t thing production anining will be real	Getting it right y control inspe- and working p ntrol system us no longer nee safety standar toys orkers may fin of lack of emp urrent quality of spection of ead sts portant to meet ent good name workers the rest tion task meets w materials. Po lity controllers o increase pro- n 'right first tim equired prior to	ection once TQM practices sing inspectors eded eds d it more difficult powerment control processes ch individual item t the toy safety st of the company sponsibility of ens s the required sta ptential increase will be saved thu fits or reduce price e' should save co	established seem . This is inefficient andards and suring that their andard, including in motivation is reducing costs ce osts of wastage of TQM. This will	

Question	Answer	Marks
5	 Evaluation Supported recommendation Elements that the evaluation/judgement might depend on: The current culture of TT does not seem welcoming to TQM If merger option is chosen, TT may need to consider quality systems used by Company B. Judgement may depend on the nature of staff in all the different jobs with the company. Has the current workforce got the skills/interest in moving away from current practice? 	

uesti	ion		Ansv	ver	Marks
	Questions 6 and 7 use this marking grid:				
Le vel	Knowledg e 3 marks	Applicati on 3 marks	Analysis 4 marks	Evaluation 10 marks	
3				7–10 marks Good judgement shown throughout v well supported conclusion/ recommendation, focused on the bus in the case	
2	3 marks Good understand ing shown	3 marks Good applicatio n to the case	3–4 marks Good use of reasoned argument or use of theory to explain points made	4–6 marks Some judgement shown in the main of the answer and an attempt to supp conclusion/ recommendation, focuse the business in the case OR effective and well supported conclusi recommendation, focused on the bus in the case	oort d on on/
1	1–2 marks Some understand ing shown	1–2 marks Some applicatio n to the case	1–2 marks Limited use of reasoned argument or use of theory to support points made	1–3 marks Limited attempt to show judgement e within the answer OR a weakly supported conclusion/ recommendation with some focus on business in the case	
0	No creditabl	e content	1	1	

Question	Answer	Marks
6	Discuss the usefulness of strategic choice techniques to TT's directors when choosing between the joint venture with company A or the merger with company B.	20
	 Knowledge Joint venture – when companies co-operate in a new project, often in another country, to share expertise. Merger – when a company joins with another company with a view to mutual benefit, in this case vertical integration. Strategic choice techniques – Ansoff's matrix, Force Field analysis, Decision Trees investment appraisal. Quantitative v qualitative techniques Understanding of SWOT, PEST, Porter's Five Forces and Boston Matrix as strategic analysis techniques prior to SC. 	
	 Application Merger is example of vertical integration Ansoff – might be considered as diversification, market development or market penetration Ansoff might best consider joint venture to be product development, or diversification. Force Field Analysis for merger Culture issues of merger as restraining factor. Existing 20 shareholders and their attitude toward the merger. Increased access to retail outlets as driver. Infrastructure and employees would not be changed as driver. Potential loss of TT identity as it joins other brands owned by company B Force Field Analysis for joint venture \$3.5m cost as restraining factor Similarities between TT and Company A in terms of size, organisational structure and working practices as a driver. 	
	 Analysis Analysis of how strategic choice techniques might guide strategic decisions: Identification of restraining forces that need to be addressed when making decisions or alternatives sought such as financing the joint venture. Weighting of forces in FFA helps managers focus on relevant factors to the decision resulting in better decision making Ansoff encourages consideration of risk involved in strategic decisions which protects the business from bad choices that are too risky. Decision Trees provide quantitative information allowing comparisons of options so that the most profitable decision, on average, can be identified. 	

Question	Answer	Marks
6	 Evaluation Elements that the evaluation/judgement might depend on: Subjective nature of assigning numbers to driving and restraining forces in Force Field Analysis Accuracy of DTA estimating future pay-off and probabilities. Need for a range of quantitative and qualitative approaches to inform decision making. Dynamic nature of business environment making predictions about future difficult Significance of other factors that may also influence decision Decision may depend on objectives of director/shareholders – merge or not? Do they want to stay within the organisation or take the return? Need for strategic analysis prior to SC 	

Question	Answer	Marks
7	Assume TT merges with company B. Evaluate strategies senior management could use to manage the necessary changes.	20
	 Knowledge Change management: planning, implementing, controlling and reviewing the movement of an organisation from its current state to a new one Understanding strategies used by management to ensure that workforce are informed, 'on board' and included when a major change is introduced. Need for communication with workers Ways in which workforce may be included, e.g. project champions, project groups. Role of resistance Change in leadership style to manage change Importance of business culture Role of informal groups Understanding of corporate planning Application Mission statement of TT New merged company will increase in size – growth issues Infrastructure and employees of both companies would not be changed Company B is a large retailer so this is vertical integration, however the case indicates that Company B also owns other toy brands, so they may have some manufacturing expertise as well/horizontal integration Company cultures are very different regarding delegation and teamwork. 	
	 Analysis Communication of clear objectives to give goals for all employees to work towards. Communicating the reasons for the merger so that employees understand the changes can reduce resistance. Company cultures are very different – a major area that would need to be planned for. If merger is opportunity for greater delegation in TT then training may be needed to give workers the skills to cope with extra responsibility. Integrating staff and brands will need to be carried out with care, risk to TT's brand of 'minority' status. Informal groups will be important – how to get them 'on board'? 	

Question	Answer	Marks
7	 Evaluation Success of any change management strategy will depend on management approach and, to some degree, whether change is supported from top down. Best strategies will be those that prepare staff, show the benefits, then carry them along as change develops Will TT directors and staff be able to adapt to these changes? What are likely to be the main obstacles? Company mergers often do not deliver the promised 'synergy benefits' Timing will also be important. To what extent will employees see this as a major threat? 	