

BUSINESS

9609/32 May/June 2019

Paper 3 Case Study MARK SCHEME Maximum Mark: 100

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.

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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.

Question			Answer		Marks	
1	Analyse how SWF might benefit from introducing a quality assurance system.					
	Level	Knowledge 3 marks	Application 2 marks	Analysis 5 marks		
	2	3 marks Knowledge of QA and benefits	2 marks Points applied to SWF	4–5 marks Good use of theory and/or reasoned argument to explain benefits		
	1	1–2 marks Knowledge of QA	1 mark Point applied to SWF	1–3 marks Some use of theory and/or reasoned argument to explain benefits		
	Note: Quality control is not a form of QA and should not be rewarded. Candidates must demonstrate some understanding about QA to access marks. Question is about benefits. No marks for drawbacks.					
	Knowledge Definition of quality assurance: based on setting agreed quality standards at all stages of production in order to ensure customer satisfaction is achieved.					
	 Accept: TQM as particular form of QA Giving responsibility to workers for checking quality 					
	 Motive to inclusion System Reduce 	creased productivity em can be used to t	elf-checking and effo	orts to increase quality leads oblems tion – no need for quality		

Question	Answer	Marks
1	 Application Could avoid issues such as the poisoning caused by inadequate cleaning of production valve A failure of SWF was in not identifying the problem of the production valve Importance of quality in a food industry context Maintaining SWF's reputation for good quality products Impact on sales to national supermarket group that SWF supplies Link to mission statement which refers to meeting customers' needs and expectations Benefit of QA can be explored in context of the possible consequences of SWF's failure to assure quality of milk: Possible loss of government contract to supply milk to schools 	
	 Impact on sales of non-milk products such as ice cream and butter Payment of compensation to those affected by sub-standard products Analysis Building of chains of arguments linked to Knowledge and Application points 	
	 raised above Impact on long term reputation and therefore sales and profits Avoid payment of compensation in poisoning outbreak will reduce profits Loss of contract to government would reduce sales and profits Motivation leading to higher productivity will lead to higher profits / enable SWF to offer more competitive prices. Less rework of goods produced leading to a reduction in costs 	

Question	Answer	Marks
2(a)(i)	Refer to lines 37–48 and Table 2. Calculate, for the purchase of the automated milking machinery, the:	3
	accounting rate of return (ARR)	
	For full marks units (%) required	
	ARR = Annual return/Capital cost x 100 (1 if no calculation)	
	Return = \$940000 or 940000(1) Annual return = \$188000 or 188000 (2) ARR = 9.4% (3)	
	9.4 (2)	
	Likely answers with errors: Requires working to be shown for award of marks.	
	1 error due to residual value being added or subtracted	
	148000/2000000 × 100 = 7.4% or 7.4 (2)	
	228000/2000000 = 11.4% or 11.4 (2)	
	Alternative formula:	
	ARR = Annual return/Average investment x 100 (1 if no calculation)	
	Where: Average investment = (Initial capital cost + scrap value)/2	
	Return = \$940 000 (1) Annual return = \$188 000 (2)	
	ARR = 188 000/(2.2/2) × 100 = 17.1% (3)	
	17.1 (2)	
	OFR applies	

Question	Answer						
2(a)(ii)	net present value (NPV) at a discount rate of 10%. For full marks units (\$) are required						
	Year	Net cash flows (\$000s)	Discounted cash flows (\$000s)	Marks			
	1	200	182	1 for any			
	2	710	589.3	- accurate use of discount			
	3	780	585	factor(s)			
	4	650	442				
	5	600	372				
	Cumula	ative inflow	2170.3	2			
	Less Yr 0	(2000)	(2000)				
	NPV		170.3	3			
	NPV = \$170 300 (3) 170 300 (2) \$2 170 300 (2) Likely Answers with errors. Requires working to be shown for award of marks. Added on the residual value: \$294 300 or 294 300 (2) Subtracted residual value: \$46 300 or 46 300 (2)						
	OFR						

Question			Ans	swer		Marks	
2(b)	Recommend to SWF whether the new automated milking machinery should be purchased. Justify your recommendation.						
	Level	Knowledge 2 marks	Application 2 marks	Analysis 4 marks	Evaluation 4 marks		
	2	2 marks Two relevant points	2 marks Factors well applied to SWF	3–4 marks Good use of theory and/or reasoned argument to analyse factors	3–4 marks Good judgement shown e.g. well supported conclusion		
	1	1 mark Relevant point	1 mark Some application of factors to SWF	1–2 marks Some use of theory and/or reasoned argument to analyse factors	1–2 marks Some judgement shown e.g. one factor very important		
	 Knowledge Understanding of factors influencing decision: NPV ARR Payback Importance of finance required/cost of investment Benefits of automation Increased productivity Lower labour costs Consistent quality Disadvantages of automation Labour redundancy Training of workers Initial cost 						
	- (• Disad - L 	Consistent qua dvantages of a Labour redunda Training of wor Initial cost	lity utomation ancy kers	s such as force field	d analysis		

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Question	Answer	Marks
2(b)	 Application Use of results to investment appraisal/case study information. OFR NPV \$170 300 so worth considering ARR 9.4% – a good return on investment? Calculation of payback; 3yrs 5.72 months (Allow 5.7 or 5.8 months) Discounted payback; 4yrs 6.5 months 100 employees may lose jobs. Contradicts the stated core values of SWF regarding employees Other firms too small to take advantage of machinery – SWF gains competitive advantage Calculation of cost per farm = \$100 000 Reference to industry being competitive. Price important. Application of strategic choice techniques 	
	 Analysis Cost savings would make SWF more competitive in market enabling price to be reduced leading to higher sales. Impact of redundancies on motivation and therefore productivity of firm Impact of redundancies on reputation and sales of SWF Reaction of unions/ employees could lead to industrial action and disruption to production during transition. This could impact reputation and future sales 	
	 Evaluation Identification and justification of most important factor. How many employees will leave due to natural wastage? Would consumers care about redundancies or do they just want cheaper milk – Some evidence of ethical considerations as sales of organic produce is increasing This is a competitive industry, feed costs are increasing and sales decreasing – SWF must change to remain competitive. This is a significant investment that has to be financed. Does SWF have sufficient funds? Will a loan be required? What is the rate of interest for borrowing? 	

Question			An	swer		Marks
3	Assess the likely impact on SWF's profitability of the changing external environment.					
	Level	Knowledge 2 marks	Application 2 marks	Analysis 6 marks	Evaluation 6 marks	
	2	2 marks Good knowledge shown	2 marks Good application to SWF	4–6 marks Good use of theory and/or reasoned argument to explain impact of external environment	4–6 marks Good judgement shown	
	1	1 mark Some knowledge shown	1 mark Some application to SWF	1–3 marks Some use of theory and/or reasoned argument to explain impact of external environment	1–3 marks Some judgement shown	
	techr Profi Applicati Use Tech probl Dem SWF Cons Incre incre Char be pa Char supp	external environological, demo tability; rate of ion of data in Table nological chan lems ographic chan sographic chan sographic chan sographic chan lems ographic chan lems ographic chan lems ographic chan lems ographic chan lems to govern aid near MINIM nges to govern lying milk to so	ographic and le return measure ges e.g. auton ges resulting ir t accounting fo lation is lower t ay mean that S y im wage are lik 1UM WAGE ment policy im chools.	s consideration of the e egal factors that influence ed by profit margins nation of milking offer se of decreasing sales of m or 70% of sales. than feed cost inflation WF needs to identify m cely to impact SWF as e portant as SWF has co	ce SWF. olutions to ilk. This is nethods of employees may ntract for	
	• Expo		will be subject	to the regulatory regim	es of other	

Question	Answer	Marks
3	 Analysis Decreasing sales of milk due to demographics means SWF may need to identify alternative markets for using milk such as frozen desserts. Entering these new markets may require substantial investment. Consumer price inflation is lower than feed cost inflation – this could put pressure on SWF's profit margins. As MINIMUM WAGE increases SWF production costs may increase and this may reduce profits. This may affect all other farming businesses equally Technological changes offer solutions to problems to cost pressures but require substantial investment and therefore carry risk Increasing costs will mean that SWF needs to identify methods of increasing efficiency. 	
	 Evaluation Identification of most important external factor and justification SWF less affected by MINIMUM WAGE changes as they can automate milking Diversification of SWF will have reduced risk Impact of cost increases on profitability depend on price elasticity of demand The external environment is dynamic and may change in the future and affect profitability differently. What if government changes policy? Will government increase subsidies to farms? Data in Table 1 is forecast. Actual changes may be very different Impact of changing environment will depend on the management of SWF and its flexibility in responding to change. Contingency planning may be significant. 	

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Question	Answer	Marks
4(a)(i)	Refer to the table in Appendix 1. Calculate:	3
	the centred quarterly moving average for quarter 3, 2018	
	4 period MA = 8 period moving total/8 (1 mark if no calculation)	
	= (23 + 36 + 50 + 36 + 36 + 50 + 36 + 25)/8 (1)	
	= 292/8 (2)	
	= 36 500 litres or 36.5 thousand litres (3)	
	Allow full marks for 36.5 thousand or 36 500	
	OFR	
4(a)(ii)	the seasonal variation for quarter 3, 2015.	2
	Sales – 4 period moving average trend (1)	
	= 40 – 30 (1)	
	= 10000 litres (2) Allow full marks for 10 or 10000	
	Note: -10 or -10 000 is no marks (wrong equation)	
4(b)	Refer to the table and graph in Appendix 1. Calculate SWF's forecast sales for Quarter 3 in 2019.	3
	Predicted trend from inspection of graph: 40.8 (1) Allow ± 0.2 i.e. 40.6 – 41	
	Add average seasonal variation Q3 = 11.97(1)	
	Forecast = 52.77 thousand litres or 527 700 litres (3) Allow 52.57 – 52.97 thousand litres (3)	
	Correct units must be indicated for full marks	
	52.57 – 52.97 or 527 570 – 527 970 (2)	
	OFR	

Question			Answe	r		Marks	
4(c)	Refer to your result from <u>4(b)</u> . Discuss the usefulness of sales forecasts to SWF when making marketing and operational decisions.						
	Level	Knowledge 2 marks	Application 2 marks	Analysis 4 marks	Evaluation 4 marks		
	2	2 marks Good knowledge shown of sales forecasts & decisions	2 marks Points well applied to SWF	3–4 marks Good use of theory and/or reasoned argument	3–4 marks Good judgement shown e.g. well supported conclusion		
	1	1 mark Knowledge shown of forecasts or decisions	1 mark Some application to SWF	1–2 marks Some use of theory and/or reasoned argument	1–2 marks Some judgement shown		
	 Note: Limit to L1 AN & EVAL if only marketing or operational decisions considered. Limit to L1 AN & EVAL if no reference to trend shown from 4(b)/Appendix 1 OFR for answer to 4(b) 						
	– • Sale varia • Mar • Ope utilis	dge hods of forecasting TSA based on extra Delphi technique ba es forecasting using ations and gives a re- keting decisions rela- terational decisions re- sation. May include tract	apolating from ased estimates Time Series A ealistic predicti ate to marketin elate to produc	past sales data of a panel of ex nalysis takes ac on. g strategy / mar tion e.g. stock c	count of seasonal keting mix ontrol, capacity		

Question	Answer	Marks
4(c)	 Application Trend clearly shows that sales of ice cream are increasing Reference to usefulness of data in Table 1 e.g. change in milk sales by volume etc Forecasting enables planning, this method fits ice cream sales pattern well i.e. SWF faces clear seasonal variation and consistent past trends so it is reasonable to assume that the future will be similar, making forecasting valuable for planning. E.g. Volume of milk required to meet production requirements Combined forecasting sales of milk and milk products will inform decisions regarding purchase of animal feed, herd size required – this requires relatively long term planning as herd size may take time to alter. Case indicates possible changes to the market; demographic change and change in tastes will impact accuracy of forecasts based on past data Not all products sold by SWF will demonstrate seasonal patterns of demand e.g. milk thus using 4 period moving average not necessary. Analysis Helps ensure efficient use of labour and machinery helping to control costs of production and therefore ensure profitability Marketing decisions regarding pricing will be influenced by many other factors such as PED and costs of production Advertising likely to be influenced by overall sales so foresting important but will also be influence decisions – e.g. if SWF wishes to increase profits may need to cut costs of operations How forecasts contribute to market planning and production planning Evaluation More reliable than simple forecasting or just projecting a trend Relies on future events behaving as in past so may not be reliable Extent to which it is or isn't useful <!--</td--><td></td>	
	 Other evidence needs to be taken into account e.g. prediction of competitors' behaviour, likely future government actions, and/or economic changes May be advisable to introduce an element of probability to the forecasts – what if analysis? 	

Question			Answer			Marks	
5	The Board of Directors is to consider changes to the organisational structure of SWF needed during a period of business growth.					16	
	Recommend changes to the organisational structure of SWF. Justify the changes you recommend						
	LevelKnowledge 2 marksApplication 2 marksAnalysis 6 marksEvaluation 6 marks						
	2	2 marks Good knowledge shown of organisational structure	2 marks Good application to SWF	4–6 marks Good use of theory and/or reasoned argument	4–6 marks Good judgement shown		
	1	1 mark Relevant point organisational structure	1 mark Some application to SWF	1–3 marks Some use of theory and/or reasoned argument	1–3 marks Some judgement shown		
	 Knowledge Organisational structure shows the lines of authority/chain of command in an organisation – also spans of control/levels of hierarchy/formal communication channels Knowledge of different organisational structures e.g. matrix, geographic Delayering – e.g. from tall to flat Centralisation/Decentralisation 						
	 Application Current structure appears to be traditional hierarchy based on functional departments. This hasn't evolved with the growth of the business and could lead to potential inefficiencies linked to: SWF has farms throughout country Q and regional differences. SWF produces a range of products – milk, ice cream, cheese – that may require different ways of managing e.g. marketing. Could this be better achieved through a product based structure SWF sells internationally – may require different approach to selling goods. Expansion plans include further extending the product portfolio 						
	 Geog count Busition Matrix 	tions include: graphical structure e. try P ness unit structure e. ix structure for new p ain hierarchical but a	g. ice cream, n rojects such as	nilk and option 2 s option 1 or 2	ales in		

Question	Answer	Marks
5	 Analysis Analysis of why the current structure is not suited to SWF Analysis of why the structure is not suited to growth of the business or increasing competition which might need more flexible/adaptable structure Geographical structure allows for regional/country differences and quicker local decision making – less control from SWF head office though? SWF has farms throughout country Q. Regional differences may require managers to respond to local conditions. A centralised, tall structure may prevent SWF responding appropriately. A more decentralised structure allows specialist managers to focus on different needs of different divisions – might lead to rivalry though? Matrix structure improves communication between departments allowing better decisions to be made. This could be linked to change required by strategic options. Analysis of benefits of a centralised structure currently used – Consistency of management Analysis of benefits of change to decentralised structure. Evaluation Judgement as to which structure is best suited to SWF with justification Recognition of possible limitations on change e.g. impact of delayering on motivation, role of unions etc. Judgement as to which is most important factor guiding the change e.g. need for more effective coordination. 	

Questio	n		Answ	er	Marks			
	Questions 6 and 7 use this marking grid:							
Level	Knowledge 3 marks	Application 3 marks	Analysis 4 marks	Evaluation 10 marks				
3				7–10 marks Good judgement shown throughout v well supported conclusion/recommer focused on the business in the case				
2	3 marks Good understanding shown	3 marks Good application 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 the answer and an attempt to suppor conclusion/recommendation, focused business in the case OR effective and well supported conclusi recommendation, focused on the bus in the case	on/			
1	1–2 marks Some understanding shown	1–2 marks Some application 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 credita	able content				

Question	Answer	Marks	
6	Evaluate the usefulness of strategic analysis techniques when making decisions about the future direction of SWF.		
	If only consider strategic choice techniques i.e. decision tree, force field, investment appraisal, Ansoff then no marks.		
	Question is not about the choice between Option 1 and Option 2. Focus should be on how SA will help guide the direction of SWF		
	 Knowledge Explanation of strategic analysis and its techniques – SWOT, PEST, Boston Matrix, Porters 5 Forces, core competencies. Place of strategic techniques in strategic management Critical comments on the techniques Need to understand the external environment – requiring a detailed PEST analysis 		
	 Application SWOT applied to SWF Strengths e.g. reputation for quality, scale of production Weaknesses e.g. lack of contingency planning, inadequate QA systems, high gearing Threats e.g. changing demographics and tastes in society Opportunities e.g. organic market growth PEST applied to SWF Technological e.g. automation and impact on costs Economic e.g. changes to minimum wage, change to exchange rate/trade relations Social e.g. demographic changes Political/legal e.g. regulations regarding milk processing Relevant application of other techniques e.g. Boston Matrix etc 		
	 Analysis Analysis of how changes identified might guide strategic decisions Focus on strengths will reduce risk to the business Identification of weaknesses that need to be addressed when making decisions or alternative sought e.g. financing Anticipating changes to the external environment will enable SWF to take decisions to reduce risk take advantage of opportunities 		

Question	Answer	Marks
6	 Evaluation Clear conclusion as to the importance of strategic analysis and/or techniques including: Critical comments on the techniques Importance of understanding where the business is now in order to generate ideas and/or support for expansion Comments that strategic analysis on its own is not enough to fully support a decision Subjective interpretation of the models – one manager's opinion of SWOT may be very different to another's SWF operate in a dynamic environment so analysis may quickly become outdated Weighing up importance of other stages in strategic management especially objectives and choice techniques in relation to strategic analysis Ranking the usefulness of the techniques in relation to expansion plans An assessment of the importance of timing and a timescale in carrying out analysis. 	

Question	Answer	Marks
7	Discuss the importance of contingency planning to the future success of SWF.	20
	Knowledge Definition of contingency planning: preparing an organisation's resources for unlikely events. This may also be referred to as crisis management, scenario planning and business continuity planning.	
	Allow reference to business use of having a 'Plan B'	
	 Benefits: Reassures customers and staff that their interests are being considered. Reduces potential impact on customers in the event of a major disaster Recognising major risks may actually reduce the risk of the disaster happening 	
	 Limitations: Disasters still occur Can't have contingency plans for all eventualities 	
	 Application Recognising major risks, such as milk contamination impacts of weather on production disease of livestock failure of equipment – could impact storage of ice cream etc fire in factories producing ice cream etc Commentary on SWF's response to milk contamination Confused statements from SWF Delay in appointing PR consultant Delay in public announcement from CEO 	
	 Analysis Can be expensive and time consuming especially for small businesses. There is the planning process and also the need to train staff for each possible eventuality With fore-planning the public relations response is much more likely to be quick and appropriate so that senior managers can manage the media attention and communicate effectively what the company intends to do, by when and how from disasters both in terms of costs and bad PR and loss of customer loyalty Avoiding disasters is better than planning what to do if they happen. Plans need to be updated frequently as the business develops increasing costs Ineffective response to milk contamination threatens SWF's future sales and profitability 	
	 Evaluation Judgement of extent to which CP is important to success Recognition that other factors will have significant impact on success of SWF Cost of CP needs to be balanced against the potential costs of not doing it. Which potential disasters should be planned for? How much time is spent on preparing and testing contingency plans? 	