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# Business management Higher level Paper 2

Monday 3 May 2021 (morning)

1 hour 45 minutes

#### Instructions to candidates

- Do not open this examination paper until instructed to do so.
- A clean copy of the **business management formulae sheet** is required for this examination paper.
- Section A: answer one question.
- Section B: answer two questions.
- A calculator is required for this examination paper.
- The maximum mark for this examination paper is [50 marks].

# Section A

Answer **one** question from this section.

# 1. The Pie Store (TPS)

*The Pie Store* (*TPS*) bakes pies and sells them in its three retail stores. When developing its brand, *TPS* used the mathematical symbol pi ( $\pi$ ). In 2020, each store made a profit.

#### Table 1: Financial information for TPS' three retail stores for 2020 (all figures in \$)

	Store 1	Store 2	Store 3
Sales	180 000	223000	170000
Cost of goods sold	90 0 00	120000	85000
Gross profit	90 0 00	103000	85000
Expenses	66 000	76000	67 000
Net profit before interest and tax	X	Y	Z

At the end of 2020, the balance sheet for *TPS* (the three stores combined) showed \$200000 in assets and \$120000 in liabilities. \$50000 of the liabilities was long-term debt.

(a)	Describe <b>one</b> step in the development of a brand.		[2]
(b)	Calculate:		
	(i)	which store made the highest net profit before interest and tax (no working required);	[1]
	(ii)	which store had the highest profitability (show all your working).	[2]
(c)	Calculate:		
	(i)	TPS' equity;	[1]
	(ii)	TPS' return on capital employed (ROCE) (show all your working).	[2]
(d)		ain <b>one</b> effect that the \$50 000 long-term debt may have on <i>TPS</i> ' profit and account.	[2]

# 2. Sharon's Super Lunches (SSL)

*Sharon's Super Lunches (SSL)* is a cooperative that provides healthy school lunches. The lunches are delivered daily to students, who order them online. *SSL* aims for a minimum order size of 50 lunches to deliver to a school.

Forecasted sales of lunches	3200
Maximum sales of lunches	4000
Price of lunches	\$10.20
Variable costs per lunch	\$6.40
Fixed costs for SSL	\$7980

### Table 2: Sales and other financial information for SSL for one week

*SSL* is considering a new promotional strategy for healthy school lunches: they will donate a free school lunch to a student in a lower-income area for each lunch purchased in a higher-income area.

(a)	Describe <b>one</b> feature of a cooperative.	[2]
(b)	Using total contribution, calculate the forecasted total profit for SSL <b>before</b> the introduction of the new promotional strategy ( <i>show all your working</i> ).	[2]
(C)	Construct a fully labelled break-even chart for <i>SSL</i> for <b>before</b> the new promotional strategy is introduced ( <i>show all your working</i> ).	[4]
(d)	Explain <b>one</b> advantage to SSL from implementing the new promotional strategy.	[2]

# Section B

Answer two questions from this section.

#### 3. Soft Skin Cosmetics (SSC)

*Soft Skin Cosmetics* (*SSC*) is a private limited company that produces a small range of face creams and soaps. Its products are designed and produced in the United States, and are made from safe, natural ingredients.

*SSC* has a product-orientated marketing approach. Tiffany Presley, one of the company's co-founders, believes that *SSC*'s consumers value health above fashion. "The skincare market is full of toxic products, but ours are healthy even if they don't smell or look as nice," she says. Chelsea Presley, *SSC*'s other co-founder, wants to develop the first sunscreen free of synthetic chemicals. However, product innovation is costly and risky. If the new sunscreen is a failure, several years of research and development costs will be wasted, which *SSC* cannot afford. *SSC* currently lacks the scale to innovate.

*SSC* does not pay for advertising. It relies on social media and word-of-mouth promotion. Its brand awareness is very high among young women, and customer reviews are very positive about *SSC*'s quality and effectiveness. The company only sells online, not in retail outlets. To reach unsatisfied demand domestically and internationally, *SSC* would have to broaden its current distribution channels.

*SSC* practises corporate social responsibility (CSR). It does not test its products on animals, and supports several charities protecting endangered species. Pressure groups publicly recognize *SSC*'s commitment to animal welfare.

Currently, multinational companies dominate the global skincare market. Small emerging companies rarely survive. Chelsea wants to convert *SSC* to a public limited company, but Tiffany disagrees: she argues that shareholder pressure toward profit maximization could jeopardize consumer and animal safety.

(a)	State <b>two</b> features of product innovation.	[2]
(b)	Explain <b>one</b> advantage <b>and one</b> disadvantage for SSC of having a product-orientated marketing approach.	[4]
(c)	Explain <b>one</b> advantage <b>and one</b> disadvantage to <i>SSC</i> of practising corporate social responsibility (CSR).	[4]
(d)	Discuss Chelsea's idea to convert SSC into a public limited company.	[10]

#### 4. ReVolve Ltd (RV)

*ReVolve Ltd* (*RV*) manufactures and sells high-quality, high-priced bicycles to high-income earners. Operating in a niche market, its advertising slogan and unique selling point/proposition (USP) is "hand made to order, in the USA, delivered within seven days". Brand loyalty is strong, but brand recognition outside of its customer base is weak. 98% of its sales are to customers living within 50 miles of the business.



Prior to 2017, *RV* received an increasing number of customer complaints that phone lines were often engaged and calls not returned. As such, it adopted e-commerce. Its website now allows customers to:

- customize their choice of bicycle
- place orders
- pay for purchases
- have their questions answered.

*RV* employs 20 highly paid, skilled employees using job production. To retain these workers, *RV* has raised their wages significantly since 2016.

Increasing competition from imports of hand-made high-quality bikes has forced down prices in this niche market. RV has been making increasingly larger losses since 2017. In 2020, its sales fell by 15%. Inflation is forecasted at between 2% and 3% for the next three years. As such, RV's directors are considering two options to enable it to lower the prices of its bicycles.

**Option 1**: Offshore production to China, where production costs are significantly lower. The bicycles would be manufactured using batch production. *RV* would focus only on the design and marketing of its bicycles.

**Option 2**: Invest in new job production techniques that enable parts to be glued rather than welded, which only requires unskilled labour. Investment would cost \$3500000 and the forecasted annual net cash flow is \$600000.

(a)	Define the term <i>niche market</i> .		[2]
(b)	Exp	ain <b>two</b> benefits to <i>RV</i> of the decision to adopt e-commerce.	[4]
(c)	(i)	Calculate the payback period if RV chooses <b>Option 2</b> (show all your working).	[2]
	(ii)	Explain <b>one</b> disadvantage to <i>RV</i> of using the payback period method of investment appraisal.	[2]
(d)	Rec	ommend whether RV's directors should choose <b>Option 1</b> or <b>Option 2</b> .	[10]

# 5. KapTan

*KapTan* (*KT*), which manufactures rechargeable batteries for cordless consumer products like vacuum cleaners, began five years ago as a business with a product orientation. It sells business to business (B2B). Multinational companies dominate the rechargeable battery industry, and *KT* suffered from cash-flow problems in its first year of trading. Its profits are small and, in the last two years, have fallen.

*KT* has now developed an innovative battery that is small and lightweight. This battery is an emergency power source allowing electric cars to reach a charging station. However, the battery can only be used ten times before it runs out. *KT* has insufficient finance to create a battery that can be recharged an unlimited number of times.

Through market research, KT has discovered that:

- no other emergency batteries for electric cars exist
- owners of electric cars fear running out of power
- *KT*'s new battery could be obsolete in five years.

*KT* has the capacity to produce 90000 of these new batteries each year. The average cost is \$200 per unit. *KT* has insufficient funds to invest in additional capacity.

*KT* is considering two options:

**Option 1:** Market and sell directly to existing car owners through business to consumer (B2C) at a retail price of \$400. *KT* will need to borrow significant capital to finance this option.

**Option 2:** Accept an offer of a five-year strategic alliance with a manufacturer of electric cars. *KT* would provide its product exclusively at \$250 per unit. Sales are guaranteed.

Year	Option 1 forecasted sales	Option 2 guaranteed sales
1	50	40
2	60	50
3	100	85
4	110	80
5	90	60
Total sales	410	315

(a) Define the term *product orientation*. [2]
(b) With reference to **Option 1**, for *KT*, explain the relationship between the product life cycle, investment, profit and cash flow. [4]
(c) With reference to *KT*, explain **two** problems that a new business may face. [4]
(d) Recommend whether *KT* should choose **Option 1** or **Option 2**. [10]

#### **References:**

4. [Bicycle] Hall, E., (2006). My new bicycle [online]. Available at https://www.flickr.com/photos/mulegirl/99132433 (CC BY-SA 2.0) https://creativecommons.org/licenses/by-sa/2.0/ [accessed 29 August 2019].

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