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Business management Standard level Paper 1

Friday 3 May 2019 (afternoon)

1 hour 15 minutes

Instructions to candidates

- Do not open this examination paper until instructed to do so.
- A clean copy of the **business management case study** is required for this examination paper.
- Read the case study carefully.
- · A clean copy of the business management formulae sheet is required for this examination paper.
- Section A: answer two questions.
- Section B: answer question 4.
- · A calculator is required for this examination paper.
- The maximum mark for this examination paper is [40 marks].

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Section A

Answer **two** questions from this section.

1.	(a)	With reference to <i>RDM</i> , describe how changes in operations management altered its relationship with two other business functions.	[4]
	(b)	Explain how <i>RDM</i> 's transformation of its manufacturing process from traditional mass production to highly automated production affected the interests of internal stakeholders.	[6]
2.	(a)	With reference to <i>RDM</i> , outline one advantage and one disadvantage of Jan's leadership style (lines 88–89).	[4]
	(b)	Explain how innovation at <i>RDM</i> may have influenced their marketing practices.	[6]
3.	(a)	Describe two changes in the external environment that have affected <i>RDM</i> .	[4]
	(b)	Explain how the methods used to motivate employees could have changed when <i>RDM</i> transformed from traditional mass production to highly automated production	[6]

Section B

Answer the following question.

4. While identifying a location for the new factory, *Zylstra Industries* (*ZI*), a large manufacturing company located not far from Location A, presented *RDM* with another possibility: a strategic alliance. Thus, *RDM* have two options to consider.

Option 1: Purchase land and build a new automated factory. The potential location is summarized in **Table 1**.

Table 1: Information on Location A

	Location A
Cost of land, construction, and \$6 000 000 in equipment	\$64 000 000
Skills of workforce	Low
Access to large markets	Centrally located near highly profitable markets
Expected 5-year profit	\$80 000 000 (\$16 000 000 per year for 5 years)
ARR	x
Payback	Υ
Annual payments to mortgage lender if financed with debt	\$2.6 million

Location A is in an economically depressed area of northwestern Europe, where land values nevertheless remain high. Location A has an old industrial tradition with a long tradition of poor industrial/employee relations.

Option 2: A ten-year strategic alliance with *ZI. ZI* has proposed that *RDM* uses some of its vacant manufacturing space in exchange for assistance in transforming *ZI*'s manufacturing process into a highly automated one using robots. Twenty *RDM* engineers and computer scientists would:

- transform ZI's current factory into an automated one
- train ZI engineers
- monitor the factory for the duration of the strategic alliance.

ZI would pay all capital expenditures and *RDM* would employ the twenty engineers and computer scientists. Average salary and other financial rewards of one highly skilled employee would be \$150 000 per year. In exchange, *RDM* would get free usage of factory floor space. *RDM* would buy its own equipment at a cost of \$6 000 000.

RDM estimates that leasing space similar to what *ZI* is offering would cost \$3 000 000 a year.

[Source: © International Baccalaureate Organization 2019]

(This question continues on the following page)

(Question 4 continued)

(a)	State two reasons for selecting a specific location for production.		
(b)	Using the information in Table 1 , calculate for Location A :		
	(i)	the payback period (show all your working);	[2]
	(ii)	the average rate of return (ARR) (show all your working).	[2]
(c)	Explain two types of financial rewards, other than salary, that <i>RDM</i> might offer its engineers and computer scientists.		[4]
(d)	Rec	ommend whether <i>RDM</i> should choose Option 1 or Option 2 .	[10]