UNIVERSITY OF BOLTON

INSTITUTE OF MANAGEMENT

BSC (HONS) BUSINESS

SEMESTER 1 EXAMINATION 2019/2020

FINANCIAL MANAGEMENT AND DECISION MAKING

MODULE NO: BMP5006

Date: Thursday 16 January 2020

Time: 10.00 – 1.00

INSTRUCTIONS TO CANDIDATES:

There are Five questions on this paper.

Answer <u>ALL</u> questions.

This examination is 3 hours.

This is a open book examination.

You must hand in this exam paper with your answer booklet.

(Discount tables are attached at the back of this question paper)

Students are allowed to bring into the exam hall one A4 sheet of paper with notes et al

Question 1

Carl Limited is considering which of three projects it should undertake.

The initial investment will be £15,000, and the cost of capital is 8 %.

The scrap/residual value at the end of the project period will be £2,000.

The net after tax cash flows of the projects are as follows:

	Project A £	Project B £	Project C £	est -				
Year 1 Year 2 Year 3 Year 4 Year 5	4,000 6,000 5,000	5,000 5,000 4,000 3,600	4,000 5,000 3,000 5,000 1,400	Ş				
Required :	٠	a						
(a) Calculate the, the P for each project.	ayback Period,	and the net P	resent Value of	(12 marks)				
b) For each of the above which project should	al recommend	(2 marks)						
 c) Using all the information gathered from the above techniques which project would you recommend giving the reasons for this decision. 								
d) Explain the uses, lim compared to Net Pre	/back Period raisal.	(2 marks)						
				(4 marks)				
	(10tal 20 Marks)							

Question 2

Marsh Company has provided you with the financial statements for the last two years.

Marsh Company Income Statement for the year ends

	2019 £ 000	2020 £ 000
Revenue	440	330
Cost of Sales	(248)	(<u>192</u>)
Gross Profit	192	138
Expenses	(122)	(<u>88)</u>
Operating Profit	70	50
Interest Payable	(<u>10)</u>	<u>(10)</u>
Profit Before Tax	60	40
Тах	(<u>11)</u>	<u>(7)</u>
Profit After Tax	<u>49</u>	<u>33</u>
Marsh Company Statement of Fi	nancial Position	
	<u>2019</u>	2020
	£000	£000
Non-Current assets	405	361
Current assets:		00
Inventory	45	28
Cash	05 7	40 10
	117	84
Payables	<u>72</u>	<u>32</u>
Net current assets	45	<u>52</u>
Long term loop	450	413
Long termiloan	350	<u>-100</u> 313
Capital	250	250
Retained earnings	<u>100</u>	<u>63</u>
	<u>350</u>	<u>313</u>

Question 2 continued over the page

Question 2 Continued

Required:

(a) You are required to calculate the following ratios:

- (i) Gross profit margin
- (ii) Operating profit margin
- (iii) Expenses to sales
- (iv) Return on Capital Employed
- (v) Asset turnover
- (vi) Non-current asset turnover
- (vii) Current Ratio
- (viii) Quick Ratio
- (ix) Inventory days
- (x) Receivables days
- (xi) Payable days
- (xii) Interest cover

(12 marks)

(b) In light of your calculations comment on the performance of the company over the last two years.

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(8 marks)

(Total Marks 20)

Please turn the page

Question 3

Jones plc manufactures one product, and the entire product is sold as soon as it is produced. There are no opening or closing inventories and work in progress is negligible. The company operates a standard costing system and analysis of variances is made every month. The standard cost card for a product is as follows.

		£
Direct Materials	0.5 kilos at£4 per kilo	2.00
Direct Wages	2 hours at £8.00 per hour	16.00
Variable Overheads	2 hours at£0.30 per hour	.60
Standard Variable Co	ost	18.60
Standard Contribution	1	<u>13.40</u>
Standard Selling Price	e	<u>32.00</u>

Budgeted output for the month of June 2015 was 5,100 units.

Actual results for June 2015 were as follows:

Production of 4,850 units was sold for £150,350. Materials consumed in production amounted to 2,300 kgs at a total cost of £9,800. Labour hours paid for amounted to 8,500 hours at a cost of £67,800. Actual operating hours amounted to 8,000 hours. Variable Overheads amounted to £2,600.

Required:

Calculate all variances and prepare an operating statement for the month ended June 2015. (Total 20 marks)

Please turn the page

Question 4

Hardaker Limited produces and sells two products.

Product A sells for £12 per unit and has a total variable cost of £7.90, while Product B sells for £17 per unit and has a total variable cost of £11.20.

For every 4 units of Product A sold, three of product B are sold.

Hardaker Limited fixed costs are £131,820 per period.

Budgeted sales revenue for the next period is £398,500.

Required :

- (a) Calculate the Breakeven points in Units.
- (b) Calculate the Margin of Safety in Units

(c) Evaluate the relevance of Break Even Analysis in the modern manufacturing environment

(10 marks)

(Total Marks 20)

Question 5

Evaluate and detail the significant steps in setting a financial / cost controlling budget in a large organisation.

(Total Marks 20)

END OF QUESTION PAPER

(5 marks)

(5 marks)

Present Value Table

Present value of 1 i.e. $(1 + r)^{-n}$

Where r = discount rate and n = number of periods until payment

Discount rate (r)										
Period	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%
S										
(n)									X	
1	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90
	0	0	1	2	2	3	5	6	7	9
2	0.98	0.96	0.94	0.92	0.90	0.89	0.87	0.85	0.84	0.82
	0	1	3	5	7	0	3	7	2	6
3	0.97	0.94	0.91	0.88	0.86	0.84	0.81	0.79	0.77	0.75
	1	2	5	9	4	0	6	4	2	1
4	0.96	0.92	0.88	0.85	0.82	0.79	0.76	0.73	0.70	0.68
	1	4	8	5	3	2	3	5	8	3
5	0.95	0.90	0.86	0.82	0.78	0.74	0.71	0.68	0.65	0.62
	1	6	3	2	4	7	3	1	0	1
6	0.94	0.88	0.83	0.79	0.74	0.70	0.66	0.63	0.59	0.56
	2	8	7	0	6	5	6	0	6	4
7	0.93	0.87	0.81	0.76	0.71	0.66	0.62	0.58	0.54	0.51
	3	1	3	0	1	5	3	3	7	3
8	0.92	0.85	0.78	0.73	0.67	0.62	0.58	0.54	0.50	0.46
	3	3	9	1	7	7	2	0	2	7
9	0.91	0.83	0.76	0.70	0.64	0.59	0.54	0.50	0.46	0.42
	4	7	6	3	5	2	4	0	0	4
10	0.90	0.82	0.74	0.67	0.61	0.55	0.50	0.46	0.42	0.38
	5	0	4	6	4	8	8	3	2	6
11	0.89	0.80	0.72	0.65	0.58	0.52	0.47	0.42	0.38	0.35
	6	4	2	0	5	7	5	9	8	0
12	0.88	0.78	0.70	0.62	0.55	0.49	0.44	0.39	0.35	0.31
	7	8	1	5	7	7	4	7	6	9
13	0.87	0.77	0.68	0.60	0.53	0.46	0.41	0.36	0.32	0.29
	9	3	1	1	0	9	5	8	6	0
14	0.87	0.75	0.66	0.57	0.50	0.44	0.38	0.34	0.29	0.26
	0	8	1	7	5	2	8	0	9	3
15	0.86	0.74	0.64	0.55	0.48	0.41	0.36	0.31	0.27	0.23
	1	3	2	5	1	7	2	5	5	9

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(n)	11%	12%	13%	14%	15%	16%	17%	18%	19%	20%
1	0.901	0.893	0.885	0.877	0.870	0.862	0.855	0.847	0.840	0.833
2	0.812	0.797	0.783	0.769	0.756	0.743	0.731	0.718	0.706	0.694
3	0.731	0.712	0.693	0.675	0.658	0.641	0.624	0.609	0.593	0.579
4	0.659	0.636	0.613	0.592	0.572	0.552	0.534	0.516	0.499	0.482
5	0.594	0.567	0.543	0.519	0.497	0.476	0.456	0.437	0.419	0.402
6	0.535	0.507	0.480	0.456	0.432	0.410	0.390	0.370	0.352	0.335
7	0.482	0.452	0.425	0.400	0.376	0.354	0.333	0.314	0.296	0.279
8	0.434	0.404	0.376	0.351	0.327	0.305	0.285	0.266	0.249	0.233
9	0.391	0.361	0.333	0.308	0.284	0.263	0.243	0.225	0.209	0.194
10	0.352	0.322	0.295	0.270	0.247	0.227	0.208	0.191	0.176	0.162
11	0.317	0.287	0.261	0.237	0.215	0.195	0.178	0.162	0.148	0.135
12	0.286	0.257	0.231	0.208	0.187	0.168	0.152	0.137	0.124	0.112
13	0.258	0.229	0.204	0.182	0.163	0.145	0.130	0.116	0.104	0.093
14	0.232	0.205	0.181	0.160	0.141	0.125	0.111	0.099	0.088	0.078
15	0.209	0.183	0.160	0.140	0.123	0.108	0.095	0.084	0.074	0.065

209 0.183 0.102