INSTITUTE OF COST AND MANAGEMENT ACCOUNTANTS OF PAKISTAN



16th Comprehensive Examination

Saturday, the 28th May 2011

Time Allowed – 2 Hours

Maximum Marks - 60

- (i) Attempt both the cases 1 and 2 that carry 30 marks each.
- (ii) Answers must be neat, relevant and brief.
- (iii) In marking the question paper, the examiners take into account the clarity of exposition, logic of arguments, effective presentation, language and use of clear diagram or chart where appropriate.
- (iv) Read the instructions printed on the top cover of answer script CAREFULLY before attempting the paper.
- (v) Use of non-programmable scientific calculator of any model is allowed.
- (v) DO NOT write your Name, Reg. No. or Roll No. anywhere inside the answer script.
- (vi) Multiple Choice Questions (MCQs) printed separately, is an integral part of this question paper.
- (vii) Question paper must be returned to the invigilator before leaving the examination hall.

CASE # 1

Marks

Kamran Limited is reviewing the profitability of its three products. The budgeted data for the coming year is as under:

Particulars	Product-A	Product-B	Product-C
Sales – Units	80,000	100,000	120,000
	Rs.	Rs.	Rs.
Sales revenue	880,000	1,500,000	1,440,000
Costs:			
Material	240,000	500,000	480,000
Labour	160,000	400,000	320,000
Overhead	360,000	650,000	600,000
	760,000	1,550,000	1,400,000
Profit/(Loss)	120,000	(50,000)	40,000

The company has taken serious view of the loss of Product-B and is considering to discontinue its production and to utilize the spare capacity for producing 100,000 units of Product-A.

Additional information:

- (i) All production is sold.
- (ii) 25% of the labour cost for each product is fixed in nature.
- (iii) Fixed administrative overheads amounting to Rs.900,000 in total have been apportioned to each product on the basis of units sold and are included in the overhead cost above. All other overhead costs are variable.
- (iv) Discontinuation of production of Product-B would eliminate the fixed labour cost associated with it and one-sixth of the fixed administrative overhead apportioned to Product-B.
- (v) Increasing the production of Product-A by 100,000 units would mean that the fixed labour cost associated with Product-A would double, the variable labour cost would rise by 20% and its selling price would have to be decreased by Rs.1.50 in order to achieve the increased sales.

Required:

- (a) Prepare a marginal cost statement for a unit of each product:
 - (i) on the basis of the original budget;
 - (ii) if Product-B is deleted.

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						Mark	ks
(b) Prepare a statement showing the	total contr	ibution ar	d profit fo	r each pro	oduct:		
(i) on the basis of original budge	et;					03	3
(ii) if Product-B is deleted.						07	,
(c) Using the results from (a) and (b) the product range, giving reasons				uct-B sho	uld be delete	ed from 05	;
	CASE	E # 2					
A company is considering an investme plant and machinery. The project would and machinery could fetch a resale value working capital of Rs.1,250,000 in year. The project is expected to earn the follows:	d have a li ue of Rs.3 1 and to b	ife of five ,000,000. be release	(5) years Further, t	at the en the projec	d of which th t would also	e plant require	
Year	1	2	3	4	5		
Cash profit (Rs.'000')	3,500	3,000	2,500	2,000	2,000		
Depreciation for plant and machinery Income tax purpose. Assume that the which it relates and the first year's depreyear 1.	corporate	tax is pa	id one ye	ar in arre	ar of the per	riods to	
The Assistant Management Accountar using the company's target of 20% precash flows.							
As the newly recruited Management Adincorporate the effects of tax. The corporate company's after-tax rate of return is 13%	orate tax i	is 35% du					

Required:

(a) Calculate the NPV of the project as the Assistant Management Accountant would have calculated it.

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Your assistant is surprised to note the difference between discounting the pre-tax cash flows at a

- **(b)** Re-calculate the NPV of the project taking tax into consideration. (Show clearly the computation of taxation on profit and depreciation)
- (c) Comment on the desirability of the project vis-a-vis your findings in (b) above.

pre-tax DCF rate and after-tax cash flows at a after-tax rate.

THE END

			PRES	ENT	VALUE		FACTORS				
Year	10%	11%	12%	13%	14%	15%	16%	17%	18%	19%	20%
1	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.85	0.85	0.84	0.83
2	0.83	0.81	0.80	0.78	0.77	0.76	0.74	0.73	0.72	0.71	0.69
3	0.75	0.73	0.71	0.69	0.67	0.66	0.64	0.62	0.61	0.59	0.58
4	0.68	0.66	0.64	0.61	0.59	0.57	0.55	0.53	0.52	0.50	0.48
5	0.62	0.59	0.57	0.54	0.52	0.50	0.48	0.46	0.44	0.42	0.40
6	0.56	0.53	0.51	0.48	0.46	0.43	0.41	0.39	0.37	0.35	0.33
7	0.51	0.48	0.45	0.43	0.40	0.38	0.35	0.33	0.31	0.30	0.28
8	0.47	0.43	0.40	0.38	0.35	0.33	0.31	0.28	0.27	0.25	0.23
9	0.42	0.39	0.36	0.33	0.31	0.28	0.26	0.24	0.23	0.21	0.19
10	0.39	0.35	0.32	0.29	0.27	0.25	0.23	0.21	0.19	0.18	0.16