

M.Com. (Semester – IV) Examination, April/May 2013 ACCOUNTING AND FINANCE CO4A3: Cost Management

	tion.	inst each ques	are compuis ed shown agair	: 1) All questions 2) Marks allotte	Instructions	
10			questions:	the following five	Discuss briefly t	1.
					a) Tear down a	
			gement	us on Cost Manag	,	
					c) Cost-benefit	
	teninincener				d) Phases in lea	
				ty centre.	e) Responsibilit	
10	ousiness unit.	inistration of a	tion and admin	plain the various sales and distribut	production, s	2.
				OR STATE OF		
a 10		e process of in	d? Discuss the	lanced Scorecarded scorecard.		
10	plementation o		technique? C		good balance A) What is a line	3.
10 A a	nplementation or		technique?C nent.	ed scorecard. ear programming ousiness environm	good balance A) What is a line	3.
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X) The company has four terminals M, N, O and P. At the start of a particular day 10, 4, 6 and 5 trailers respectively are available at these terminals. During the previous night 13, 10, 6 and 6 trailers respectively were loaded at plants P, Q, R and S. The dispatcher has come up with costs between the terminals and plants as follows:

	· · · · · · · · · · · · · · · · · · ·			
Plants Terminals	P	own again; ions:	R R seup evit	S
М	20	36	10	28
N	40	20	45	20
0	75	35	45	50
Р	30	35	40	25

Using Vogel's approximation method, find the allocation of loaded trailers from plants to terminals in order to minimise transportation cost. Also check whether it fulfills the condition "m+n-1" to see that the solution obtained is not a degenerate solution.

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5. A) A project has the following time schedule:

Activity	Time in weeks	Activity	Time in weeks
1011-2101	d costin y is used	9285 - 7 108	doldwing sens el
1-3	1	6-8	1
2 – 4	g Linear Program	7 – 8	2
3 – 4	1	8-9	= 2x ₁ 4 3x ₂
3 – 5	6	8 – 10	8
4 – 9	5	9 – 10	0 < 7 < 12
5 – 6	4		$x_1 - x_2 \le 0$

Construct a network diagram and compute:

- a) Critical path and its duration
- b) Total float
- c) Earliest start time
- d) Latest start time
- e) Earlier finish time
- f) Latest finish time.

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OR

X) A manufacturing company has four zones A, B, C and D and four sales engineers P, Q, R and S respectively for assignment. Since the zones are not equally rich in sales potential, it is estimated that a particular engineer operating in a particular zone will bring the following sales:

Sales	Zones (Sales) (in '000)			
Engineers	A	В	С	D
Р	140	112	98	154
Q	90	72	63	99
R	110	88	77	121
S	80	- 64	56	88

Find the optimum assignment so as to maximise the expected total sales.

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