

**MARK SCHEME for the October/November 2010 question paper
for the guidance of teachers**

9706 ACCOUNTING

9706/42

Paper 4 (Problem Solving (Supplement)),
maximum raw mark 120

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

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1 (a)

Akram, Bhupesh and Chuck
Profit and loss appropriation account for the year ended 31 March 2010.

	\$	\$	\$	
Gross profit			383 000	
General expenses		306 600		(1)
Bad debts		300		(1) could be split 500 – 200
Depreciation – buildings	6 200			all three 2 marks or two 1 mark
machinery	18 700			
vehicles	<u>17 200</u>			
		<u>42 100</u>	<u>349 000</u>	
Net profit for the year			34 000	(1of)
Salary Akram		8 000		(1)
Interest on capital Akram		9 600		
Bhupesh		6 600		all three (1)
Chuck		<u>4 800</u>	<u>29 000</u>	
residual profit before profit share			5 000	
Share of profit/loss Akram		(1 320)		(1of)
Bhupesh		(880)		(1of)
Chuck		<u>7 200</u>	<u>5 000</u>	(2of)

[11]

(b)

Current accounts

	A	B	C		A	B	C	
	\$	\$	\$		\$	\$	\$	
Balance b/d					14 000	27 000	37 000	(1)
Drawings	40 000	33 400	35 000	(1)	Salary	8 000		(1)
Loss	1 320	880			Int on cap	9 600	6 600	4 800
Balance c/d			<u>14 000</u>		Profit			7 200
	<u>41 320</u>	<u>34 280</u>	<u>49 000</u>		Balance c/d	<u>9 720</u>	<u>680</u>	(1of)
					<u>41 320</u>	<u>34 280</u>	<u>49 000</u>	[6]

(c)

Capital accounts

	A	B	C		A	B	C	
	\$	\$	\$		\$	\$	\$	
Curr acc	9 720	680		Bal b/d	160 000	110 000	80 000	(1)
Deb's	50 000	50 000	50 000	Curr acc			14 000	(1of)
Shares	210 000	(1) 140 000	(1) 70 000	Surpl	106 200	70 800	35 400	*(7)
Bank		<u>9 400</u>	(1of)	Bank	<u>3 520</u>	<u>9 880</u>		
	<u>269 720</u>	<u>190 680</u>	<u>129 400</u>		<u>269 720</u>	<u>190 680</u>	<u>129 400</u>	

* 600 000 (1) – (367 000 (1) – 42 100 (1of) + 23 500 (1) + (37 000 – 18 000) (1) + 20 200 (1))
= 212 400
plus (1of) for the correct profit share between partners. [16]

(d)

Bank account

	\$		\$	
Bad debt	200	(1)	Balance	14 000
EDC Ltd	30 000	(1)	Expenses	20 200
Akram	3 520	(1of)	Chuck	9 400
Bhupesh	<u>9 880</u>	(1of)		
	<u>43 600</u>			<u>43 600</u>

[7]

[Total: 40]

3 (a)

		\$
Revenue	working 1	1 715 610
purchase cost		(200 000) (1)
salary	(30 000 + 36 000 + 43 200 + 51 840 + 62 208)	(223 248) (2)
rent	(3600 + 3600 + 4500 + 4500 + 4500)	(20 700) (2)
air fare	(1000 × 5)	(5000) (1)
	Net cash flow	1 266 662 (1of)

working 1

	\$
1 000 000 × 1.1 - 1000 000	100 000 (1)
(1000 000 + 100 000 × .1.1) – 1000 000	210 000 (1of)
(1000 000 + 210 000 × .1.1) – 1000 000	331 000 (1of)
(1000 000 + 331 000 × .1.1) – 1000 000	464 100 (1of)
(1000 000 + 464 100 × .1.1) – 1000 000	610 510 (1of)
	1 715 610

[22]

(b)

year	annual net cash flow	dis factor	\$
0	(200 000 + 3600)	1	(203 600) (1of)
1	(100 000 – 30 000 – 3600 – 1000)	0.893	58 402.20 (1of)
2	(210 000 – 36 000 – 4500 – 1000)	0.797	134 294.50 (1of)
3	(331 000 – 43 200 – 4500 – 1000)	0.712	200 997.60 (1of)
4	(464 100 – 51 840 – 4500 – 1000)	0.636	258 699.36 (1of)
5	(610 510 – 62 208 – 1000)	0.507	277 482.11 (1of)
		N.P.V (1)	726 275.77 (1of)

[8]

Page 5	Mark Scheme: Teachers' version	Syllabus	Paper
	GCE A/AS LEVEL – October/November 2010	9706	42

(c) Brad discounted payback

$$\frac{10\,903.30 \text{ (1of)}}{200\,997.60 \text{ (1of)}} = 0.054 \text{ (1of)} \text{ plus 2 years (1of)} = 2.054 \text{ years} \quad [4]$$

accept also 2 years and 20 days
2 years and 0.65 months

(d) Tanzeel has a lower NPV over 3 years (1of) At the end of three years Brad has a positive NPV (1of) Tanzeel has a slower payback than Brad (1of) Brad should be employed (1of) as a quicker payback helps to improve liquidity.

However Brad continues to earn after the three years (1) when Tanzeel would need to be replaced (1) could a good replacement be found? (1)

Other factors – Brad is younger- fitter? (1) Less prone to injury? (1) Will he fulfil his potential? (1) If he does will he demand more pay (1) and benefits (1)

Other valid points to be rewarded

[max 6]