MARK SCHEME for the October/November 2014 series

7101 COMMERCIAL STUDIES

7101/22

Paper 2 (Arithmetic), maximum raw mark 100

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.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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Pa	ge 2	Mark Scheme			Syllabus	Paper	
		Cambridge O Level – October/November 2014			7101	22	
1	(a)	17	[3]	M1 18 M1 7 + 18 – 8 or 2 or –1 +18	1 7 + 18 – 8 or 25 – 8 or 7 + 10		
	(b)	40.21	[2]	M1 2.41	41		
	(c)	$\frac{1}{3}$ cao	[4]	M1 7/24 M1 21/24 (or 7/8) M1 "7/24" × "24/21" oe			
2	(a)	0.267 cao	[2]	M1 0.266 or 4/15 oe			
	(b)	101 000	[2]	M1 100800 oe or 10.1 x 10 ⁴ oe			
	(c)	25.5	[3]	M1 300 × 85 [= 25 500] M	= 25 500] M1 ÷ 1000		
3	(a)	L 175, GL 65, GLS 120	[7]	unless TE applies M1 70 + 26 + 48 (=144) M1 70/"144" × 360 M1 26 M1 48/"144" × 360 (or 360	M1 26/"144" × 360 (or 360 – 2 angles) of correct answer (A marks		
	(b)	8763.2(0)	[6]	M1 7800 – 3500 [=4300] M2 their 4300 × 0.112 x 2 three multiplied A1 963.2 M1 7800 + their interest		vo of the	
4	(a)	163 000	[3]	M1 \sum salaries [815000] I	M1 ÷ 5		
	(b)	10374000	[2]	M1 420 × 24700			
	(c)	25688	[2]	M1 156/150 [= 1.04] × 24700			
5	(a)	15 www	[4]	 M1 9, 12, 13, 14, 14, 16, 1 reverse M1 Identify <i>their</i> two 'mide 16) M1 Find mean of their two 	dle' values (=14 &	
	(b) (i)	199.8(0)	[3]	M2 1.11 × 180 or M1 11/100 × 180			
	(ii)	160	[3]	M1 220 – 180 (=40) M1 x	x4		
	(iii)	15	[3]	M1 2.53 - 2.20 (=0.33) of M1 their 0.33/2.20 × 100 Or M1 (2.53/2.20) × 100 [=11	oe)	

Ра	ge 3		Scheme		yllabus	Paper	
		Cambridge O Level – October/November 2014			7101	22	
6 (a)		480	[7]	M1 290000/1000 \times 1.60 (=464) M1 0.12/100 \times 30000 A1 36 M1 their 464 + their 36 (=500) M2 their 500 \times 0.96 or M1 500 \times 0.04			
	(b)	42.6(0)	[4]	M2 their (a) × 1.065 or M1 6 M1 their 511.20/12 but dep I or M1 their (a)/12 (=40) M2 their 40 × 1.065 or M1 the	dep M2 or M1		
7	(a) (i)	24.5	[1]				
	(ii)	Feb, Nov	[2]	B1 for 1 correct			
	(iii)	26	[1]	[1]			
	(iv)	Jan, Feb	[2]	B1 for 1 correct			
	(v)			Accept 10.25 to 10.75 M1 their (a)(i) – 14 evaluated			
	(b)	4754.75	[4]	M2 6500 × 0.77 or M1 6500 × M1 "5005" × 0.95 If 0 scored SC2 6500 × 0.72 (0.28			
	(c)	56	[4]	M1 1445 – 0900 M1 5.75 M1 322 divided by their time	9		
			SECTIO	ON B			
8	(a)	2.3, 2.55, 2.8	[3]	Allow 2.53 to 2.57 B1 for eac	h correct		
	(b)	125	[3]	M1 4.05 [× 10 ⁶] – 1.8 [× 10 ⁶] (=2.25 [× 10 ⁶]) M1 their 2.25/1.8 × 100		10 ⁶])	
	(c)	1.6 www	[2]	M1 1.8/1.125			
	(d)	516698000	[2]	M1 $3.25 \times (10^6) \times 158.984$			
	(e)	6000	[2]	M1 499200/83.2			
9	(a) (i)	20 000	[2]	M1 844 000/42.2			
	(ii)	91770	[4]	M1 3000 + 6500 + 8200 (=17 M1 20000 - their 17700 (=2 M1 their 2300 × 39.9	,		
	(b)	171.69	[2]	M1 their 17700/100 × 0.97			
	(c)	12 20 (pm)	[4]	M1 20.30 + 11.50 (=32.20) M 00. M1 + 4	11 their 32	2.20 – 24	

Pa	ge 4	Mark Scheme			Syllabus	Paper
		Cambridge O Level – October/November 2014			7101	22
10	(a)	£83879	[5]	M1 75000 × 1.038 o.e. (=77850) M1 their 77850 × 1.038 (=80808.30) M1 their 80808.30 X 1.038 Or M3 75000(1 + $3.8/100$) ³ B1 83879. 0 (ft their B1 to nearest pound)		
	(b) (i)	£52720	[3]	M1 86000 - 20100 (=65 M1 × 0.8 oe	900)	
	(ii)	£21088	[3]	M1 176/440 oe M1 × th	eir (b)(i)	
	(c)	Apple	[1]	140 scores 0		
11	(a)	\$29408	[4]	M1 0.038 × 116000 oe A1 4408 M1 their 4408 + 25 000		
	(b)	\$27 126.40 cao	[8]	M1 their $29408 - 12000$ (M1 0.05×8000 A1 400 M1 "17408" - 8000 (=940) M1 their 9408 $\times 0.2$ oe A M1 (a) - (400 + their 1880)	cao 08) 0 1 1881.60 fi	t