CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

### MARK SCHEME for the May/June 2014 series

# 0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/53

Paper 5 (Core), maximum raw mark 24

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.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2014 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



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Page 2		Mark Scheme		bus	Paper
		IGCSE – May/June 2014		)7	53
1	(a) (i)	$\frac{1}{1+\frac{2}{3}}$ seen	1		
	(ii)	$\frac{1}{1+\frac{3}{5}}$ seen	1	<b>C</b> opportunity	
	(iii)	$\frac{1}{1} \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{5} \qquad \frac{5}{8} \qquad \frac{8}{13} \qquad \frac{13}{21} \qquad \frac{21}{34}$	2	B1 eac	h fraction
	(iv)	[Numerator =] denominator of 7 <sup>th</sup> or previous fraction or added the two previous numerators or denominator of (previous fraction + 1) oe	2	<b>B1</b> each statement	
	(b) (i)	[Denominator =] numerator + denominator of 7 <sup>th</sup> or previous fraction or added the two previous denominators or numerator of (previous fraction + 1)oe 34, 55, 89, 144, 233	2	<b>B1 FT</b> from incorrect 34 or <b>M1</b> adding previous 2 terms 3 times <b>C</b> opportunity	
	(ii)	$\frac{144}{233}$	1FT	FT fro (b)(i)	m <i>their</i> 144, 233 in
2	(a)	$\frac{2}{3}$ $\frac{6}{5}$	2		their $\frac{2}{3}$
	(b)	$\frac{22}{21}$ isw	2	<b>B1</b> der If <b>B0</b> s	nerator nominator cored, then <b>M1</b> for a ete correct fraction
	(c)	[Numerator =] 2 × previous denominator oe	1		
	(d)	[Denominator =] numerator + denominator of previous fraction oe	1		

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Page 3		Mark Scheme		bus	Paper
	U	IGCSE – May/June 2014	0607		53
3	(a) (b)	$\frac{21}{19}$ $\frac{57}{40}$ [Numerator =] 3 × 19 = 57 or 3 × previous (4 <sup>th</sup> term) denominator [Denominator =] 21 + 19 = 40 or previous (4 <sup>th</sup> term)	2	B1 eac FT <i>the</i> C oppo	h fraction $ir \frac{21}{19}$
4		numerator + previous (4 <sup>th</sup> term) denominator $\frac{4}{[1]}, \frac{4}{5}, \frac{20}{9}, \frac{36}{29}$ isw	3	B2 for B1 for C oppo	two of $\frac{4}{5}$ , $\frac{20}{9}$ , $\frac{36}{29}$ one of $\frac{4}{5}$ , $\frac{20}{9}$ , $\frac{36}{29}$ ortunity
		Communication seen in 3 or more of <b>1(a)(i)</b> , <b>1(b)(i)</b> , <b>2(a)</b> , <b>3(a)</b> , <b>4</b>	2	C1 for	2