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Excretion in humans

Mark Scheme

Level	IGCSE		
Subject	Biology		
Exam Board	CIE		
Topic	Excretion in Humans		
Sub-Topic			
Paper Type	Alternative to Practical		
Booklet	Mark Scheme		

Time Allowed: 20 minutes

Score: /16

Percentage: /100

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1 (a (i)	five digits / toes / fingers;			[1]	A jointed legs / joints / legs have joins / legs are joined I skin / muscular legs / large legs / same sized legs A folded skin A similar proportions / shape
(ii)	feature skin or scales	animal A scales present	animal B smooth absent		completion of Table 2.1 for two differences based on: naming one feature from any 2 of the 3 rows; correct comparison for each ;;
	nails / claws / talons feet / digits or digits or webbing Both features = 1 mark	yes or present claws / talons / nails no webbing absent	no or absent no claws / talons / nails webbed present mparisons = 2	[3]	A description of webbing / claws if correct
(b)	O: outline clear, unbroken lines;S: larger than original Fig. 2.1 and digits in proportion to rest of limb;				Please indicate each marking point using a tick or a cross, in order in a vertical line next to the drawing. I shading / representation of scales R majority of sketched / artistic lines but I minor / isolated overlaps or breaks. Drawing to cover more than half vertical space (>60mm) but should not extend into the printing of the following question
	 D1: presence of 5 digits; D2: minimum 4 claws; L: digit / toes / fingers / scales / join(t) / skin / claws / nails / talons; 			[5]	Label line must make contact with feature. Please indicate correct label with tick next to it. If animal B drawn allow O, S and L [Max 3]

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(c)	measurement : length of line PQ on drawing (±1 mm);		Check drawing size given using measuring tool If not drawn, no mark
	formula : measurement ÷ 36;		A ecf for 1 or 2 marks for formula and calculation.
	calculation : correct magnification;	[3]	If correct answer then award formula and calculation mark irrespective of working. If units in answer mark is lost. Incorrect rounding up or down loses mark A answer if many correct decimal points given
(d) (i)	(260 × 2 =) 520;	[1]	No mark for correct working with incorrect answer.
(ii)	Up to three from:		
	general increase from 1992 to 1995;		A rise in population from 1992 to early 1993 / rise in population from early 1993 to 1994 / rise in population from 1994 to 1995 /
	peak / maximum at 1995 / 680 animals; general decrease from 1995 to 2001; idea that increases or decreases are not smooth;		A drop from 1995 to 1997 / drop between 1997 to half way through 1998 / drop from half way through 1998 to 1999 / drop from 1999 to 2001
	any correct reference to figures with years;		A appropriate use of figures with a minimum of two population numbers for any two year references or a calculated difference.
		[Max 3]	A if numbers are doubled as males and females may be considered
		[Total: 16]	