

Qu	Scheme	Marks	AO
1. (a)	Negative (since gradient of regression line is negative)	B1 (1)	1.2
(b)	cm/day (o.e. e.g. cm day^{-1})	B1 (1)	2.2a
(c)	$3 \times [\pm] 1.1$ = decrease of 3.3 [cm]	M1 A1 (2)	3.4 1.1b
(d)	19 is (well) outside the range [1, 10] <u>or</u> involves extrapolation (o.e.) so (possibly) unreliable/ inaccurate (o.e.)	B1 (1)	2.4
		(5 marks)	
Notes			
Answers may be written within the question.			
(a)	B1 for stating “negative”. Allow a correct interpretation e.g. as t increases then p decreases (o.e.) [ignore any values] B0 for contradictory statements e.g. “negative correlation since as t increases p increases”		
(b)	B1 for a correct description of the units (allow fraction, /, or “per” and allow “d” for “day”)		
(c)	M1 for attempt at a calculation (allow use of $t = x$ and $t = x + 3$ followed by subtraction that should lead to 3.3) A1 for correct description must include word “decrease” (o.e.) and value “3.3” Just seeing: $22 - 1.1 \times 3 = 18.7$ is M0A0 BUT going on to subtract 18.7 from 22 scores M1 Reaching 3.3 <u>and</u> stating “decrease” or “reduced” (o.e.) will score the A1 too An answer of -3.3 without a word describing decrease (o.e.) will just score M1A0		
(d)	B1 for stating “unreliable” (o.e.) and giving a suitable reason based on idea of extrapolation Must have both statement about reliability and suitable reason e.g. $t = 19$ is too big <u>or</u> (Model is based on) t between 1 and 10 (only) [since this implies $t = 19$ is too big] Allow e.g. (model) “may not work” because of “extrapolation” Just saying “no” since “extrapolation” is B0 but “unreliable”(o.e.) since “extrapolation” is B1		