## **Mark Scheme**

## Q1.

Question number	Answer	Additional guidance	Mark
(a)	B2 SRCC is sensible because (one reason • from) • e.g. we expect correlation (if price • depends on quality) e.g. it will show if there is correlation / is a relationship e.g. the (three) highest quality mince pies do seem to be the (three) most expensive	B2 for correct conclusion with a sensible reason why.  OR  B1 for an incomplete answer. e.g. correct reasoning with incorrect or no conclusion, or 'yes' with an attempt at a reason e.g. 'yes, as it is bivariate/ranked data', is B1 only	(2)
(b)	B1 e.g. higher quality mince pies are more expensive, or price does depend on quality, or there is agreement between (quality and price) ranks B1 there is • positive correlation, or • (0.77) is close to 1, or • accept strong correlation	1st B1 for a correct interpretation of (positive) correlation. Allow equivalent wording. (condone e.g. 'taste' for 'quality')  Note e.g. 'as one increases the other increases' is B0  2nd B1 for formally recognising (positive) correlation.	(2)

## Q2.

Question	Answer	Additional guidance	Mark
	B1 Quota		(1)
(a)			
	B1 for e.g.	B1 for a correct statement	(1)
(b)	not random	explaining why the method	
	not representative	of sampling is not	
	biased	appropriate	
	there are very different numbers of students		
	from each nationality		
	600×979	Accept a correct equivalent	(2)
(c)	M1 300 × 77	calculation	
	A1 50		
	B1 The result is outside the range $-1 \le r \le 1$	B1 for correct interpretation	(1)
(d)		of the correlation coefficient,	
		allow the result is bigger than	
		1	
	B1 Positive	B1 for correct statistical	(2)
(e)(i)		conclusion	
	B1 The students were in reasonable/good agreement		
	oe	B1 for correct contextual	
(e)(ii)		interpretation of conclusion	

Question	Answer	Additional guidance	Mark
number			
(a)(i)	B1 Positive correlation	B1 for correct statistical conclusion	(1)
(a)(ii)	B1 The judges were in reasonable/good agreement oe	B1 for contextual interpretation of conclusion	(1)
(b)	B1 for answer with reason, e.g.  No AND reference to the change in context (sponge cakes versus flower arranging)  Yes, likely to give similar ranks AND reference to the fact that the judges have similar tastes		(1)