Question Number	Scheme	Notes	Marks
1(a)	<table><tr><td></td><td>*A*</td><td>*B*</td><td>*C*</td><td>*D*</td><td>*E*</td></tr><tr><td>*C*</td><td>3</td><td>2</td><td>1</td><td>5</td><td>4</td></tr><tr><td>*M*</td><td>2</td><td>4</td><td>1</td><td>5</td><td>3</td></tr><tr><td>*d*</td><td>1</td><td>-2</td><td>0</td><td>0</td><td>1</td></tr><tr><td>d^2</td><td>1</td><td>4</td><td>0</td><td>0</td><td>1</td></tr></table>	Attempt to rank at least 1 row with at least 3 correct. Allow reverse rankings.	M1
		Attempt at d^2 for their **rankings**, can be implied by $\sum d^2 = 6$	M1
	$\sum d^2 = 6$	Can be implied by correct answer. Must come from correct rankings.	A1
	$r_s = 1 - \frac{6(6)}{5(24)}$	(dep on 1st M1) Use of correct formula with their $\sum d^2$	dM1
	$r_s = 0.7$	0.7 o.e. Must come from correct rankings.	A1
			(5)
1(b)	$H_0 : \rho = 0,\ H_1 : \rho > 0$	Both correct in terms of ρ or ρ_s. Must be compatible with their ranking.	B1
	cv 0.9 or cr $r_s \geq 0.9$	0.9 sign should match H_1 or their r_s	B1
	$r_s = 0.7$ does not lie in cr so do not reject H_0	Correct non-contextual statement e.g. "do not reject H_0", "not in critical region", "not significant", "no positive correlation". $\lvert\text{test value}\rvert$ or $\lvert\text{cv}\rvert > 1$ award M0	M1
	Data does not support plant **biologist's claim**.	Correct conclusion in context. Must mention "biologist's claim" o.e. or **moisture** and **plant coverage**. All previous marks in (b) must have been scored.	A1ft
SC	For use of two-tailed test: May score B0B1M1A0 for cv = 1(.000) and 'not significant' oe		
			(4)
			Total 9