1. A plant biologist claims that as the percentage moisture content of the soil in a field increases, so does the percentage plant coverage. He splits the field into equal areas labelled *A*, *B*, *C*, *D* and *E* and measures the percentage plant coverage and the percentage moisture content for each area. The results are shown in the table below.

	A	*B*	*C*	*D*	*E*
Coverage %	10	12	25	0	6
Moisture %	30	20	40	10	25

(a) Calculate Spearman's rank correlation coefficient for these data.

(5)

(b) Stating your hypotheses clearly, test at the 5% level of significance, whether or not these data provide support for the plant biologist's claim.

(4)

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Question 1 continued

(Total for Question 1 is 9 marks)

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