Qu	Scheme	Marks	AOs
2(a)	A and B labelled correctly or reversed or for C labelled correctly together with a reason e.g. since there is no intersection between A and B or the probability of A and B happening is zero	B1	2.4
	$(0.08+0.2+0.12)\times(0.12+0.18)[=0.12]$ or $(0.17+0.08)\times(0.08+0.2+0.12)[=0.1]$	M1	1.1b
	$(0.08+0.2+0.12)\times(0.12+0.18)=0.12$ hence independent or $(0.17+0.08)\times(0.08+0.2+0.12)=0.1\neq0.08$ hence not independent	A1	1.1b
	Correctly deducing labels are B, C, A (in that order)	A1cso	2.2a
		(4)	
(b)	0.75	B1ft	3.4
		(1)	
		(5 marks)	

Notes:

(a) **B1:** For A and B identified as being the two end labels (or C identified as the centre label) and correct reason

M1: For a correct calculation to check for independence of the left and middle event or for a correct calculation to check for independence of the middle and right events

You may see: $\dfrac{0.12}{(0.08+0.2+0.12)}[=0.3]$ or $\dfrac{0.12}{(0.12+0.18)}[=0.4]$ or $\dfrac{0.08}{(0.08+0.2+0.12)}[=0.2]$

or $\dfrac{0.08}{(0.17+0.08)}[=0.32]$ [NB P(A | C) notation not used since off spec.]

A1: For fully correct working with conclusion of which pair of events are independent (or not)
A1cso: For correct deduction of position of labels B, C, A

Note: If correct working seen for independence condition with labels B, C, A but reason for the mutually exclusive aspect not seen then B0M1A1A1

(b) **B1ft:** ft their B