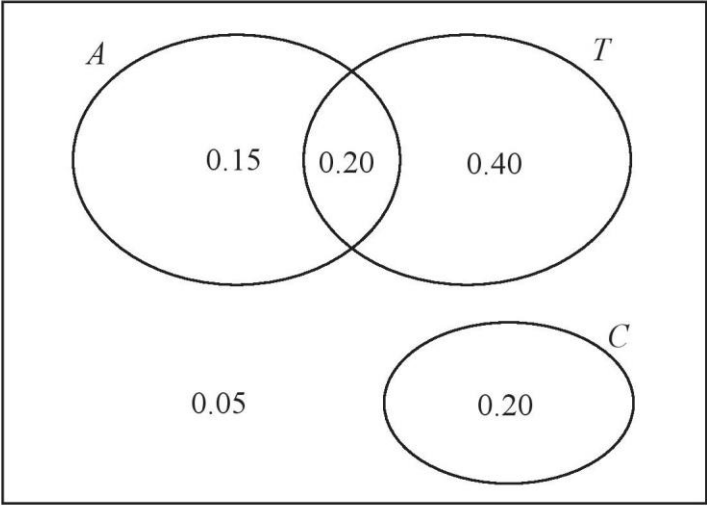


Question	Scheme	Marks	AOs
3(a)	$p = [1 - 0.75 - 0.05 =] \underline{\mathbf{0.20}}$	B1	1.1b
		(1)	
(b)	$q = \underline{\mathbf{0.15}}$	B1ft	1.1b
	$P(A) = 0.35 \quad P(T) = 0.6 \quad P(A \text{ and } T) = 0.20$ $P(A) \times P(T) = 0.21$	M1	2.1
	Since $0.20 \neq 0.21$ therefore A and T are not independent	A1	2.4
		(3)	
			
(c)	$P(\text{not } [A \text{ or } C]) = \underline{\mathbf{0.45}}$	B1	1.1b
		(1)	

(5 marks)

Notes:

- (a)**
B1: cao for $p = 0.20$
- (b)**
B1: Ft for use of their p and $P(A \text{ or } T)$ to find q i.e. $0.75 - “p” - 0.40$ **or** $q = 0.15$
M1: For the statement of all probabilities required for a suitable test and sight of any appropriate calculations required
- (c)**
A1: All probabilities correct, correct comparison and suitable comment
B1: cao for 0.45