Q	Marking Instructions	AO	Mark	Typical Solution
14 (a)(i)	Finds correct probability **OE**	1.1b	B1	$\dfrac{10}{120}$
14 (a)(ii)	Finds total number for 'depression'	1.1a	M1	$9 + 2 + 1 = 12$
	Calculates correct probability **OE**	1.1b	A1	$\dfrac{12}{120}$
14 (a)(iii)	Uses conditional probability to calculate P(stress|low exercise) to obtain $\dfrac{38}{39 \le x \le 119}$	1.1a	M1	$\dfrac{38}{50}$
	Obtains correct probability **ACF**	3.1b	A1	
14(b)	Shows that 14+38 or 52 or $\dfrac{14}{50} + \dfrac{38}{50}$	3.1b	M1	$14 + 38 = 52$ $52 > 50$ so events are not mutually exclusive
	Compares 14+38 with 50 or compares $\dfrac{14}{50} + \dfrac{38}{50}$ with 1 and concludes events are not mutually exclusive	2.4	R1	
	Total		7	