Question number	Answer	Notes	Marks
16 (a)	Any two of braking force; air resistance / drag; (road or tyre) friction;	ACCEPT Headwind/wind resistance in this case	2
(b) (i	force = mass x acceleration;	ACCEPT mass = force ÷ acceleration ACCEPT acceleration = force ÷ mass ACCEPT standard symbols, F = m x a	1
(i	Substitution in correct equation; Calculation; e.g. 1400 x 5.5 = 7700 (N) or 7.7 k(N)	correct answer = 2 marks	2
(c)	Attempt at area under the graph (e.g. ½ x base x height); ½ x 4 x 22; Correct answer 44 (m);  OR	correct answer = 3 marks  first mark implied in correct substitution	3
	distance = (average) speed x time; 11 x 4; correct answer 44 (m)	first mark implied in correct substitution	
(d) (i			1
(i	Any two of Increase in air resistance / drag / wind resistance; Increase in road resistance / (tyre) friction; Decrease in resultant force; Road becomes steeper / goes uphill;	IGNORE references to terminal velocity IGNORE 'more weight in the car' IGNORE 'driver changed gear' IGNORE 'driver turned corner'	2

**Total 11 Marks** 

**PAPER TOTAL: 120 MARKS**