

Question number	Answer	Notes	Marks
7 (a)	momentum = mass x velocity OR 72×8 ; Calculation 580 (kg m/s);	Or equivalent rearrangement ACCEPT use of standard abbreviations i.e. $p = mv$ ALLOW 576 (kg m/s)	2
(b)	Substitution $920 \div 0.17$; Calculation 5400 (N) ;	REJECT Alternative incorrect unit for 1 mark ACCEPT 5410 / 5412 / 5411.7..... 5411.8 REJECT 5411	2
(c) (i)	Any two from: <u>Road</u> Weather-related e.g. wet / dry / rainy / icy ; Surface-related e.g. gravel / mud / freshly tarmaced / oily ; Gradient e.g. uphill / downhill ; <u>Car</u> Mechanical e.g. quality of tyres / brakes ; Momentum-related e.g. speed / number of passengers / mass ; <u>Driver</u> State of alertness e.g. tired / alcohol / drugs / mobile phone / other distractions ; Reaction time ;	ALLOW slippery if qualified	2