- Mark Scheme /

Question	Answer	Marks	AO Element	Notes	Guidance
1	bus more likely to fall over / topple / less stable (1) (line of action of) centre of mass may fall outside (the base of) the bus (1)	2	₽		
2	line of action of the centre of mass falls outside the base of the bus OR anticlockwise moment is greater than clockwise moment	1			
3	B A D C	3		four correct = 3 marks three correct = 2 marks two correct = 1 mark	
4	any three from: centre of mass is higher surface (area in contact with table) is smaller (so a) small displacement causes toppling (because with a small displacement the) vertical line through centre of mass is outside the base owtte	3			

- Mark Scheme /

Question	Answer	Marks	AO Element	Notes	Guidance
5(a)	centre of mass in centre of load	1			
5(b)	centre of mass (moves) closer to pivot (point)	1			

[Total: 11]