

- 10** A car is moving at a constant speed of 5.5 m s^{-1} and is making a turn of radius 12 m . A small pendulum bob of mass 20 g hanging inside the car is observed to tilt at an angle θ to the vertical as shown below.



What is the value of angle θ ?

- A** 14° **B** 15° **C** 45° **D** 76°

