

## Answers to examination-style questions

Answers	Marks	Examiner's tips
1 (a) Each spring holds its brake pad retainer on the shaft at low speed. If the rotation speed is increased, the brake pad retainer moves away from the shaft and compresses the spring, which acts against the outward movement of the retainer. If the rotation speed is fast enough, the spring is unable to prevent the brake pad coming into contact with the collar. Friction between the brake pad and the collar prevents the shaft rotating any faster.	1 1 1 1	max 3 marks for (a)
(b) For no braking, the centripetal force $< 250 \text{ N}$  $\therefore m\omega_0^2 r = 250 \text{ N}$ at the maximum angular speed $\omega = 0.30 \omega_0^2 \times 0.060 = 250$ $\omega_0^2 = \frac{250}{0.30} \times 0.060 = 1.39 \times 10^4 \text{ rad}^2 \text{ s}^{-2}$ $\omega_0 = 118 \text{ rad s}^{-1}$ Maximum frequency of rotation $= \frac{\omega_0}{2\pi}$ $= 19 \text{ Hz}$	1 1 1 1	When the centripetal force exceeds $250 \text{ N}$ the spring extends outwards and, as the gap is small, braking occurs.
(c) If the springs became weaker, the tension in the springs at which the brake pads touched the collar would be less ... ... so braking would occur at a lower rotation frequency. The lifeboat would descend at a lower speed, or more friction occurs.	1 1 1	max 2 marks for (c)
2 (a) <i>Relevant points include:</i> • Speed is the magnitude of velocity (or speed is a scalar but acceleration [or velocity] is a vector). • In circular motion at constant speed the direction of motion changes continuously. • Therefore the velocity is changing. • Acceleration is the rate of change of velocity.	3	Alternatively, this can be argued as follows: • speed is the magnitude of velocity (or speed is a scalar but acceleration [or velocity] is a vector) • force (or acceleration) acts towards the centre of the circle • force (or acceleration) is always perpendicular to the velocity (or has no component in the direction of the velocity) • so the force changes the direction of the velocity but not its magnitude

# Aqa A2 Physics Exam Style Questions Answers Chapter 8

**Clifford Lane**



**Aqa A2 Physics Exam Style Questions Answers Chapter 8:**

## Reviewing **Aqa A2 Physics Exam Style Questions Answers Chapter 8**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Aqa A2 Physics Exam Style Questions Answers Chapter 8**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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