

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 $\omega = 0.30 \text{ rad s}^{-1}$ $\omega_0^2 = \frac{250}{0.30} \times 0.060 = 1.39 \times 10^4 \text{ rad}^2 \text{ s}^{-2}$ $\omega_0 = 118 \text{ rad s}^{-1}$ Maximum frequency of rotation $= \frac{\omega_0}{2\pi}$ $= 19 \text{ Hz}$	1 1 1 1	When the centripetal force exceeds 250 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

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