Quiz 7.6 – Rotational Motion

Name: _____

Rigid Rotor

Consider a 3-dimensional rigid rotor with a moment of inertia $I = 7.4 \times 10^{-47} \ kgm^2$

○ Give the energy (in J) and total angular momentum of the $l = 2$ energy level

○ List all of the allowed values for the z-component of the angular momentum