Shape of the body	Axis Of rotation	Expression for Moment of Inertia
One dimensional rod of mass M and length L	1) Center of Rod and $\perp$ to length 2) One end and $\perp$ to length	$\frac{ML^2}{12}$ $\frac{ML^2}{3}$
Sphere of mass M and Radius	1) Any diameter 2) Any tangent plane	$(2/5)MR^2$ $(7/5)MR^2$
Circular disc of Mass and radius R	1) Through center, $\perp$ to plane of Disk 2) any diameter 3) tangent in the plane of the disc 4) tangent $\perp$ to plane of disk	$(1/2)MR^2$ $(1/4)MR^2$ $(5/4)MR^2$ $(3/2)MR^2$
Circular ring of mass M and radius R	1) Through center, $\perp$ to plane of ring 2) any diameter 3) tangent in the plane of the ring 4) tangent $\perp$ to plane of ring	MR^2 $(1/2)MR^2$ $(3/2)MR^2$ $2MR^2$
Cylinder of mass M ,radius R and length L	1) own axis 2) through center $\perp$ to length	$(1/2)MR^2$ $M(\frac{R^2}{4}+\frac{L^2}{12})$
Rectangular lamina of Mass M,length L and breath B	1) Length of lamina and in its plane 2) breath of lamina and in its plane 3) Center of lamina and $\perp$ to its plane	$\frac{MB^2}{3}$ $\frac{ML^2}{3}$ $\frac{M(L^2+B^2)}{12}$
Rectangular block of Mass M,Length L,Breadth B and Height H	Through center of block and parallel to Length or breadth or height of the block	$\frac{M(H^2+B^2)}{12}$ $\frac{M(L^2+H^2)}{12}$ $\frac{M(L^2+B^2)}{12}$