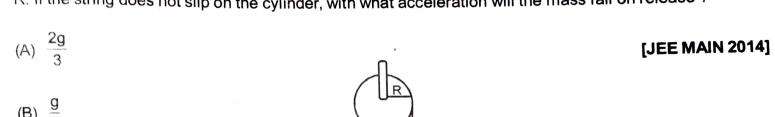
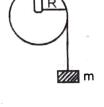
A mass 'm' is supported by a massless string wound around a uniform hollow cylinder of mass m and radius R. If the string does not slip on the cylinder, with what acceleration will the mass fall on release?

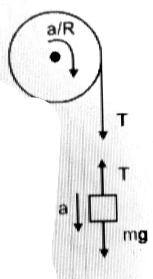








Sol.



$$T.R = mR^2 \frac{a}{R}$$
(2)

....(1)

$$\frac{9}{2} = a$$