## QUIZ 3

- A particle moves on a trajectory  $r = \beta \theta$  trajectory in a plane for some constant parameter  $\beta$ . Find out the torque experienced by the particle at location  $(r, \theta)$  moving under a force according to Newton's law.
- Mohali is situated at a latitude of 30° north of equator. Find the magnitude
  of acceleration and its direction in spherical polar basis a stationary
  particle in Mohali will feel due to its rotation around the axis in a circular
  trajectory.

## Quiz - 03