1X - Uniform Circulare Motion My unifour wearlass motion is an accelerated motion? When the body is a uniform circular motion, the velocity changes continuously due to change in direction of motion at every point even though the speed remains constant.

Hence due to change in relocity uniform curular motion is an accelerated motion, Concepts 503/1, Near Prince Hostel, Opp. Sahara Hospital, Civil Lines, Ludhia 141001 (Pb.)
(M) 98725-001134, 48784-977 OLEAN Body is moving in a straight 1 Body is moving in a circular Xeneale motion 2) There is acceleration even if the leady is moving with a constant If the body is moving with continuous speed, then there 31 & - care maning on a straight 31 & - earth moning around sun. is no acceleration. to the sixulary both - le for each. an object with a constant acceleration but with zero velocity an object moving in a cortain direction with an acceleration in the perfendicular direction. In a when a body is theorem vertically expused the body comes to seast five a small moment at the highest point from where it starts falling back. At this point velocity is zero but acceleration is  $a = 9.8 \text{ m/s}^2$  (due to gravity) b) When a body is in cucular path, the direction of motion at any point is along the tangent at that point but acceleration is along the radius of will directed towards centre. Hence acceleration & direction of motion are perpendicular to each other