**Answer on Question #56547-Physics-Mechanics-Relativity**

**5-12** A body is rotating uniformly about a vertical axis fixed in an inertial frame. The resultant force on a particle of the body not on the axis is :
(A) Vertical                                          (B) Horizontal and skew with the axis
(C) Horizontal and intersecting the axis              (D) None of these

**5-13** The axis of rotation of a purely rotating body :
(A) Must pass through the centre of mass              (B) May pass through the centre of mass
(C) Must pass through a particle of the body          (D) May pass through a particle of the body

12.

**Answer: (C) Horizontal and intersecting the axis**

It is a factual statement.

13.

**Answer: (B) May pass through the center of mass; (D) May pass through a particle of the body.**

It is a factual statement.