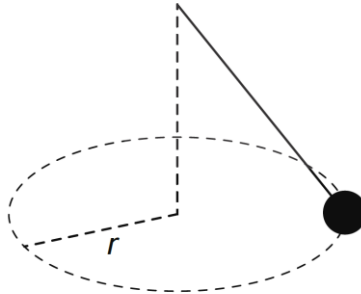**8**

The mass at the end of a pendulum is made to move in a horizontal circle of radius r at constant speed. The magnitude of the net force on the mass is F.

What is the direction of F and the work done by F during half a revolution?

direction of F

work done by F

A

towards centre of circle

zero

B

towards centre of circle

$\pi r F$

C

away from centre of circle

zero

D

away from centre of circle

$\pi r F$