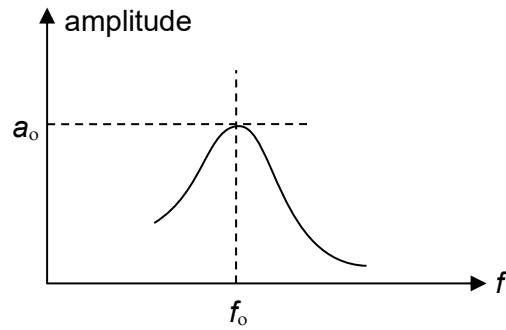
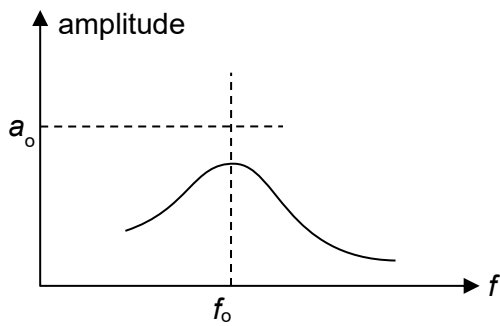


A pendulum is constructed from a fixed length of light thread and a spherical, polystyrene bob of low density. It is forced to oscillate in air at different frequencies  $f$ . The following diagram shows how the amplitude of its oscillation varies with  $f$ .

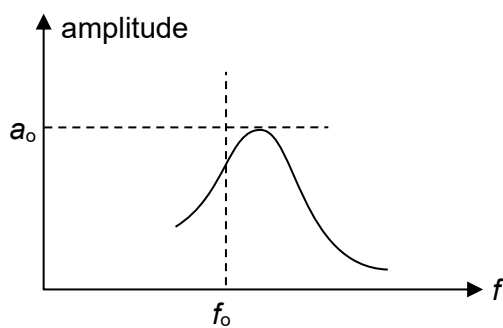


If the experiment is repeated in a partial vacuum, which graph best represents the variation with  $f$  of the amplitude?

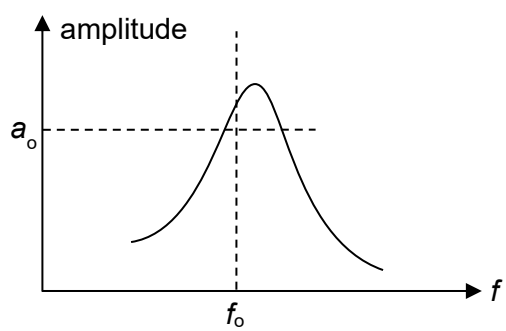
**A**



**B**



C



D

