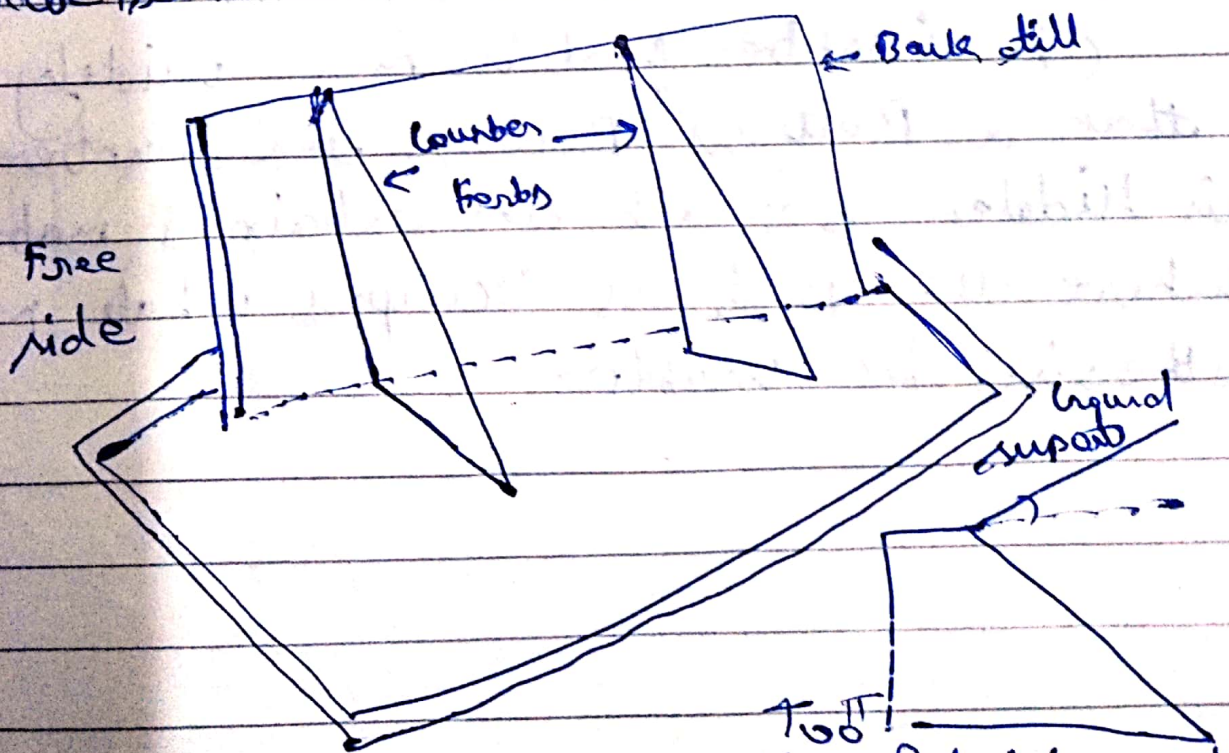


Ans (4/2) 01

\* Counter Fort Retaining wall  $\Rightarrow$  A

Counter Fort Retaining wall is a cantilever wall with counter forts or buttresses, attached to the inside face of the wall to function further resist lateral thrust. Some common material used for retaining walls are masonry, concrete, block system, concrete, stone and brick.



(a) Counter Forts Retaining wall

02

\* Counter Fort retaining wall have thin vertical slab known as counter fort spaced across the vertical stem at regular intervals

\* Counter Fort the vertical beams with the Base slab

\* The purpose of providing counter fort is to reduce shear force & Bending moment in the vertical beam & the Base slab.

A Buttress wall & the Base slab similar to a counter fort wall is similar to a counter fort wall except that the transfer to a counterfort opposite to the retained material and act as compression struts. Buttress as compression elements are more efficient than the tension counter fort and all economical in the same height range.

A counter fort is more widely used than a Buttress because the counter fort is hidden beneath the retained material, where the Buttress occupies what may otherwise be usable.