Question title: Single Layer Shallow Water	
A single layer shallow water approximation is good for flows that are (select as many as apply):	
1.	stratified vertically in density
2.	baroclinic
3.	hydrostatic (i.e., shallow)
4.	forced by surface elevation variations
□ 5.	possessing smaller vertical velocities than horizontal ones
Questio	n title: Meaning of multiple layers
Multiple	layer shallow water equations are good for describing (select many):
1.	density stratified fluids
	·
2.	fluids where the vertical velocities are smaller than the horizontal
3.	hydrostatic fluids
4 .	incompressible fluids
5 .	unstably stratified fluids (i.e., where the potential density isn't monotonic with depth)
Question title: Height and Volume	
The layer height equation in shallow water equations is the equivalent to the conservation of volume in the Boussinesq equations.	
O _{True} O False	
Question title: Unmoving Layers	
It is not move.	possible to specify that some of the layers in a shallow water system are not allowed to
OTrue	e O False
Question title: Conservation Properties of Shallow	
A consistent version of energy can be formed for the shallow water equations, and conservation laws for it are available.	
O True O False	