Preparation: Systems Thinking

This is an individual assignment.

Please read through the <u>Preparation article</u> before you fill out this form.



* Indicates required question

Email *

Your email

Considering a single Net Pen in a salmon farm as a technological system, match * each item to an aspect of the system.

A net pen or sea cage is an enclosed floating cage. The structure holds farmed fish and allows water to flow through the pen freely.

	Architecture: Structure	Architecture: Behavior	Function: Input		Outcome: Stakeholders	Outcome: 0 Problem	0
Anchor, Buoys, Fish Net, Mooring Chain	0	0	0	0	0	0	
Fishing Boat extracts grown salmon from Fish Net	0	0	0	0	0	0	
The feed and waste from the salmon can have a detrimental effect on the marine environment	0	0	0	0	0	0	
People who are so interested can have a steady supply of salmon at an affordable costs	0	0	0	0	0	0	
Anchor pulls down on Mooring Chain, Buoys pull	0	0	2	0	0	0	

salmon for food in the wild is cost-ineffective Select all the examples of a technological system. * The Boston subway system The Solar system A human with a brain-machine hardware interface to control a prosthetic arm installed in their brain							
People who wish to benefit from the health benefits of consuming salmon	0	0	0	0	0	0	
Feeding Boat drops feed inside Fish Net	0	0	0	0	0	0	
Mooring Chain, Mooring Chain affixes Fish Net							

Select all the appropriate statements about system structure, behavior, and function.	
The function of a system depends on other systems at its boundry.	
System architecture is made possible by system function.	
System function is made possible by system structure & behavior.	
Select all the appropriate statements about system function and system * outcome.	
It is sometimes possible to design a system that produces only benefit, without any detriment.	
It is sometimes possible to achieve multiple intended outcomes (benefits and/or detriments) with the same system function.	
It is sometimes possible for different system functions to achieve the same system intended outcome (benefits and/or detriments).	
If there was anything you were not sure about to do with this assignment, or if you would like to leave a comment about the assignment, please do so here. Your answer	
A copy of your responses will be emailed to the address you provided.	
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