Preparation2: Systems Thinking

This is an individual assignment.

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

hllin@mit.edu Switch account

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* Indicates required question

Email *

Your email

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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: Architecture:	Architecture: Behavior	Function: Input		Outcome: Stakeholders	Outcome: 0 Problem I
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

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dp on Mooring Chain, Mooring Chain affixes Fish Net							
Feeding Boat drops feed inside Fish Net	0	0	0	0	0	0	
People who wish to benefit from the health benefits of consuming salmon	0	0	0	0	0	0	
Growing salmon for food in the wild is cost- ineffective	0	0	0	0	0	0	
				4			
Select all the ex	-	-	cal system	ז. *			
The Boston subway system The Solar system							
A human with a brain-machine hardware interface to control a prosthetic arm							
installed in their brain							
An artificial	heart						

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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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