Question 1

11 / 11 pts

For the given scenario, identify the best design approach:

At the beginning of the design process, the designer is attempting to get a feel for the Fitness Landscape. Nothing is yet set in stone; he wants to know which direction to channel his efforts

- ○ Heuristic
- ○ Bayesian
- ○ Depth-first
- ○ Inductive
- ⦿ Breadth-first
- ○ Hybrid

Question 2

11 / 11 pts

Identify the best design approach for the following scenario:

The design is nearing completion and some refinement is in order

- ⦿ Depth-first
- ○ Inductive
- ○ Heuristic
- ○ Breadth-first
- ○ Hybrid
- ○ Bayesian

Question 3

11 / 11 pts

For the given scenario, identify the best design approach:

I am trying to map out a design strategy for an entirely new feature. This strategy will take weeks to complete and include many iterations.

- ○ Heuristic
- ○ Breadth-first
- ○ Inductive
- ○ Depth-first
- ○ Bayesian
- ⦿ Hybrid

Question 4

Match the term with the definition with regards to the three properties of the fitness landscape

Definition	Term
Small variations in a design most often yields small changes in the quality of the design	Smoothness ▾
There is often more than one design alternative that has a similar quality level	Multiple ▾
If it worked once, it probably won't work again. You constantly need to re-invent your designs	None of the above ▾
If a small change has one effect on the quality of the design, then a larger change along the same lines tends to amplify the effect	Uniform slope ▾
Often a small change can have a huge impact on the quality of the product	None of the above ▾
There is only one good design for a given problem. Your job as a designer is to find it	None of the above ▾