



Quiz # 4 - Section XBG – Team # 7 - Grade = 3

M	ID #	Name
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Design a Computer Maintenance Shop.

One of the design process tasks is defining the client's desires and requirements. This mainly includes, defining the objectives/attributes and constraints which may be in different categories such as economical, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

For the above mentioned design problem statement, list **5 constraints** and **10 objectives/attributes**.

Make sure that there is no repetition in any of your 15 answers.

Grade	Constraint Category	#	Constraint
constraints (0.2 points each)	Economical	1 0.2	Repairing price ranges from 50SR to 5000SR.
		2 0.2	Repairs at least 20 computers per day.
	Environmental	3 0.2	Recycles at least 30% of its waste
	Social	4 0.2	Donates at least 10% of its income to charity.
	Safety	5 0.2	Does not use more than 450 watt on each computer

Grade	Main Objective	#	Child Objective
objectives/attributes (0.2 points each)	Marketable	1 0.2	It contains a Laptop Repair including screens, jacks, fans, and keyboards.
		2 0.2	Has a section for repairing tablets and Smartphone
		3 0.2	Downloads programs and applications in addition to repairing.
		4 0.2	Modern and attractive interior and exterior design.
	Safe	5 0.2	Emergency alert system in case of fire.
		6 0.2	Insulated and good quality cables.
	Healthy	7 0.2	All computer pieces are safely insulated to avoid radiating harmful radiation.
		8 0.2	It has a central ventilation system such as (fans



			,ACs) everywhere to refresh the air.
	Environmentally Benign	9 0.2	Uses recyclable materials such as recycled bags and used products.
		10 0.2	The shop is surrounded by plants, garbage cans and recycle bins to avoid visual pollution and garbage.