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Basic Concept son Ecodesign

Unit 5: Principles/Strategies of Ecodesign

Quiz and Assignment

Carmen Fernández Fernández. c.fernandez@cetem.es

5.1.	Quiz	2
5.2.	Assignment	4

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5.1. Quiz

■ PLEASE, CHOOSE THE CORRECT ANSWER:

1. Strategies of Ecodesign are based on:

- a. The reduction of consumption of resources and waste, dumping and emission generation.
- b. The reduction of consumption of energy and waste generation.
- c. The minimisation of materials and energy consumed during production.

Solution: a.

2. The implementation methodology of Ecodesign strategies may be divided into several levels:

- a. Conceptualisation, materials purchase, manufacture, application, end of life.
- b. Conceptualisation, manufacture, application and end of life.
- c. Conceptualisation, manufacture, distribution, application and end of life.

Solution: b.

3. Strategy 0 “New Concept” requires a profound reflection on the amount of resources that are going to be consumed by the Product System and sub-strategies that can be adopted such as:

- a. Dematerialisation and minimisation of the products use.
- b. Dematerialisation and multifunctionality.
- c. Dematerialisation and optimisation in a sole function.

Solution: b.



4. Strategy 1 “Use of Low Impact Materials” involves:
- a. Looking for alternative materials with less environmental impact and using the minimum number of materials that is possible.
 - b. The number of materials does not matter neither their lesser environmental aspect.
 - c. None of the above.

Solution: a.

5. Strategy 2 “Reduction of materials” involves:
- a. That optimising the amount of materials used in manufacturing has priority over the technical function and commercialisation.
 - b. Optimising the amount of materials used in manufacturing without compromising the technical or commercial viability of the product.
 - c. None of the above.

Solution: b.

6. Strategy 3 “Optimisation of Production” may use strategies such as:
- a. Reduction of the consumed energy in the manufacturing process.
 - b. Waste reduction.
 - c. Reduction in the number of production processes and the use of cleaner alternative techniques and methods.

Solution: c.

7. Strategy 4 “Optimisation of the Distribution System” may use strategies such as:
- a. Reduction of weight or volume of packaging material.
 - b. Use of vehicles of transport with low environmental impact.
 - c. Use of traditional materials if the stated in a happens.
 - d. a and b are correct.
 - e. b and c are correct.



Solution: d.

8. Strategy 5 “Reduction in Environmental Impact of Use” involves:
- Considering maintenance of the product and reducing it as much as possible.
 - Considering maintenance of the product and outsourcing it.
 - None of the above.

Solution: a.

9. Strategy 6 “Optimisation of Life-time” involves:
- Limit durability of the product to what legislation strictly requires.
 - Increase life-time of the product.
 - None of the above.

Solution: b.

10. Strategy 7 “Optimisation of End-of-life” involves:
- Providing the recycling and reuse of the components of the product at its end-of-life.
 - Providing disassembly of the product for its final disposal in a dump.
 - None of the above.

Solution: a.

5.2. Assignment

- Which strategies and sub-strategies would you be interested in using on the product you chose in the Unit 1 task?

