Question Paper Week 2

The due date for submitting this assignment has passed. Due on 2019-08-21, 23:59 IST. As per our records you have not submitted this assignment.

1) The government realized that due to industrial pollutants being released in the nearby lake, the lake has become extremely polluted. So the government decided to clean the lake. This approach of Design for Sustainability is intervention __________________.

- in processes
- after process-caused damages
- in products and services
- in consumption patterns
- design for social equity and cohesion

No, the answer is incorrect.
Score: 0
Accepted Answers:
after process-caused damages

2) Which one of these is NOT an approach to Design for Sustainability? 1 point

- Selection of resources with low environmental impact
- Product-Service System Design for eco-efficiency
- Design of products with low environmental impact
- Design for supply chain
Design for social equity and cohesion
Design for safety and reliability
Design for manufacturability

No, the answer is incorrect.
Score: 0

Accepted Answers:
Design for supply chain
Design for safety and reliability
Design for manufacturability

3) Product-Service System innovation/ PSS innovation level: 1 point

- here the context of innovation is on human settlements and the spatio-social conditions of their communities. This can be addressed on different scales, from neighbourhoods to cities.
- here design approaches are focusing on promoting radical changes on how societal needs, such as nutrition and transport/mobility, are fulfilled, and thus on supporting transitions to new sociotechnical systems.
- The focus is on design approaches focusing on improving existing or developing completely new products.
- the focus is beyond individual products towards integrated combinations of products and services (e.g. development of new business models).

No, the answer is incorrect.
Score: 0

Accepted Answers:
the focus is beyond individual products towards integrated combinations of products and services (e.g. development of new business models).

4) DAVT is a college campus with 10 hostels with 8000 boarders. The monthly electricity bill of each hostel is around 30 Lakhs. In order to encourage the hostellers to use electricity in a more responsible way, DAVT decided to make students aware of the problem, its impact on the institute and the nation as a whole and inculcate the habit of not wasting power. It wants to use the “Design for Sustainable Behaviour” model. What aspects does it have to consider to achieve the same?

- create awareness about the ill-effects on environment and the institute’s finances
- create awareness about switching off geysers when not in use and how to decide the most optimum water temperature in which a particular type of clothes should be washed in the hostel washing machine
- making it easy to adopt the sustainable behaviour
- punishment for wasting electricity
- award for lowest energy consumption achieved in a given semester
- life-cycle assessment of electricity

No, the answer is incorrect.
Score: 0

Accepted Answers:
create awareness about the ill-effects on environment and the institute’s finances
create awareness about switching off geysers when not in use and how to decide the most optimum water temperature in which a particular type of clothes should be washed in the hostel washing machine
making it easy to adopt the sustainable behaviour
award for lowest energy consumption achieved in a given semester

5) PSS model is a model of consumption based on _______________. 1 point

- access and sharing
Product-Service System – Methods and Tools

Week 10: Other Design for Sustainability Tools and approaches

Week 11: Other Design for Sustainability Tools and approaches

Week 12: Design for Sustainability – Engineering Design Criteria and Guidelines

Live Session-1

Live Session-2

Text Transcripts

- ownership
- more is less
- lower carbon footprint
- ease of design and implementation
- establishing longer and stronger relationships with the customers

No, the answer is incorrect.
Score: 0
Accepted Answers:
access and sharing

6) A PSS model can offer the following possibility: 1 point

- new strategic market opportunities for companies
- increase competitiveness of the offering
- is always environmentally beneficial
- build barriers to entry for potential new competitors
- ease of design and implementation
- establish longer and stronger relationships with the customers

No, the answer is incorrect.
Score: 0
Accepted Answers:
new strategic market opportunities for companies
increase competitiveness of the offering
build barriers to entry for potential new competitors
establish longer and stronger relationships with the customers

7) In _______________ level, the context of innovation is on human settlements and the spatio-social 1 point conditions of their communities. This can be addressed on different scales, from neighbourhoods to cities.

- Product innovation
- Product-Service System
- Spatio-social
- Socio-technical System

No, the answer is incorrect.
Score: 0
Accepted Answers:
Spatio-social

8) Which one of these is a “satisfaction unit”? 1 point

- Geyser
- Gas stove
- Solar water heater
- Hot water
- Community water heating system

No, the answer is incorrect.
Score: 0
Accepted Answers:
Hot water

9) Which one of these is a NOT “satisfaction unit”? 1 point

- Thermal comfort
- Safe drinking water
A cup of coffee
Accurate and efficient management of companies sales and purchases
Solar water heater for hot water

No, the answer is incorrect.
Score: 0
Accepted Answers:
Solar water heater for hot water

10) Which one of these has the highest sustainability potential? 1 point

- Offer freebies to BoP using charity
- Design for BoP with a market based approach - sell smaller packets at lower and affordable prices

PSS design for BoP - PSS (system innovations) may act as business opportunities to facilitate the process of social-economic development in emerging and low-income contexts—by jumping over or by-passing the stage of individual consumption/ownership of mass produced goods—towards a ‘satisfaction-based’ and low-resource intensive advanced service economy

No, the answer is incorrect.
Score: 0
Accepted Answers:
PSS design for BoP - PSS (system innovations) may act as business opportunities to facilitate the process of social-economic development in emerging and low-income contexts—by jumping over or by-passing the stage of individual consumption/ownership of mass produced goods—towards a ‘satisfaction-based’ and low-resource intensive advanced service economy