

1. Referring to the lecture by professor Amaresh Chakrabarti, why was the Mobile Arm support suddenly affordable?
 - a. The number of components were reduced to reduce the manufacturing cost
 - b. The U. K. government agreed to provide subsidy to the assistive device[X]
 - c. The design of the product was changed to use more affordable materials
 - d. All the parts were made with aluminium to reduce the weight, hence was now easier to ship to the customers
2. Complete the following sentence: According to professor Amaresh Chakrabarti, an innovation can only succeed when the two fields of Business and Society have an exchange of _____?
 - a. Technology and Development
 - b. Value and Knowledge
 - c. Value and Profit [X]
 - d. Technology and Information
3. What makes 'Purak-the prosthetic arm' a unique innovation as discussed in the lecture 'Research to Innovation'?
 - a. It has multiple actuators
 - b. It has 5 activators
 - c. It has a single actuator to operate the fingers [X]
 - d. It has a mobile screw which facilitates movement
4. As discussed in the module 'Research to Innovation', why is the Mobile Arm support called a high risk product?
 - a. Because if somebody gets injured the company can get sued [X]
 - b. Because the device is very expensive
 - c. Because the materials to make the device are imported from other countries
 - d. Because the company profits a lot over the sale of the device
5. Why was rapid prototyping method used in case of the Sickle Innovation as per the module 'Research to Innovation'?
 - a. Because the team were close to the submission date
 - b. Because the harvest season for cotton was very short [X]
 - c. Because the team were in a limited budget
 - d. Because the team had to go to another location to test the device
6. What are the essential elements of 'Task Classification' as mentioned in the lecture by professor Amaresh Chakrabarti?
 - a. Society [X]
 - b. Technology [X]
 - c. Business [X]
 - d. Development

7. As discussed in the lecture 'Research to Innovation', how did Rolls-Royce solve the problem of ice formation at the nose cone of the Trent Turban engine?
 - a. By removing the nose cone completely to make the engine go faster
 - b. By adding a heating element to the nose cone so as to melt the ice
 - c. By using a wiggle motor so as to shake the ice particles off the nose cone
 - d. By manufacturing the nose cone with a flexible material so it would wiggle due the vibrations of the engine itself, hence preventing the ice accumulation [X]
8. According to professor Amaresh Chakrabarti, which of the following are the important components of a 'Structured Design Process'?
 - a. Technical orientation [X]
 - b. Immersion into the user environment [X]
 - c. Realisability [X]
 - d. Embodiment design
9. Which of the following is a condition for a successful product according to professor Amaresh Chakrabarti?
 - a. The product should be known by a large group of people
 - b. A large group of people must work on the development of the product
 - c. All members in the chain of supply of the product must be benefitted [X]
 - d. Extensive marketing of the product is key
10. How did the Sickle Innovations team make a comeback from its initial failure after its cotton picking machines?
 - a. The company made other alternative versions of farming tools/machines which benefited the users [X]
 - b. The company used social media promotions about its success
 - c. The company reanalysed the market and made products where it was really needed [X]
 - d. The company converted from a single product company to a franchise [X]