



Choose the Correct Choice:

- |      |   |   |   |      |   |   |   |
|------|---|---|---|------|---|---|---|
| a) A | B | C | D | b) A | B | C | D |
| 2    | 1 | 3 | 4 | 3    | 4 | 2 | 1 |
| c) A | B | C | D | d) A | B | C | D |
| 2    | 4 | 3 | 1 | 4    | 2 | 1 | 3 |

4. A. Economic sustainability is having a set amount of capital for a certain period [K<sub>1</sub>]  
B. Environmental sustainability involves natural resources that human beings need for economic or manufactured capital.  
Which of these statements are correct?  
a) A and B are incorrect                      b) A is correct and B is incorrect  
c) A is incorrect and B is correct          d) A and B are correct
5. One of the factor used for supplier assessment by WalMart is \_\_\_\_\_ [K<sub>2</sub>]  
a) type of transport                              b) supply speed  
c) High quality, responsibly sourced raw materials      d) no.of defects
6. 1. Higher the Energy Star, lower is the energy consumption [K<sub>3</sub>]  
2. Higher the Energy Star, higher is the money saved by the customers  
3. Higher the Energy Star, lower is the reduction in green house gas emission  
Choose the correct answer:  
a) 1, 2 and 3 – All are Incorrect              b) 1, 2 and 3 – All are Correct  
c) 1 and 2 are correct and 3 is incorrect      d) 2 and 3 are correct and 1 is incorrect
7. By linking CAD product design information with biomechanical models, it is possible to evaluate \_\_\_\_\_. [K<sub>2</sub>]  
a) size of garment                              b) physical load of user  
c) cutting speed                                  d) quantity of fabric used
8. One of the reasons for waste generation at source is \_\_\_\_\_. [K<sub>2</sub>]  
a) Engineering repeats and adapting pattern placement to the repeat      b) high material cost  
c) low dimension variations in fabric rolls                      d) high speed cutting machines
9. Labour rights is one of the principles advocated by \_\_\_\_\_ towards CSR [K<sub>2</sub>]  
a) UNO    b) UNGC  
c) UPSC    d) SPSC
10. \_\_\_\_\_ a concept describing social and environmental effects of company's economic actions to particular interest groups within society and to society at large [K<sub>2</sub>]

- a) Economic accounting                      b) economic liability  
c) social liability                              d) Social accounting

**PART B (10 x 2 = 20 Marks)**

11. Highlight on the impact of ecology and culture on sustainability of apparel industry [K<sub>2</sub>]  
12. Differentiate between product design for reuse and product design recycling [K<sub>3</sub>]  
13. Bring out the relationship between material intensity per service unit (MIPS) and resource productivity. [K<sub>3</sub>]  
14. List out the possible areas where heat energy can be reused in textile and apparel manufacture [K<sub>2</sub>]  
15. Highlight how cost of production acts as a assessment metrics in sustainable manufacture [K<sub>3</sub>]  
16. Mention few factors to be considered for assessing the sustainability of fabric supplier [K<sub>2</sub>]  
17. Bring out the scope for reuse of fabric waste in apparel manufacturing industry [K<sub>4</sub>]  
18. State the strategies to reduce or eliminate waste and defectives generation at source. [K<sub>4</sub>]  
19. What is the role of certification of OSHA and WRAP in sustainable manufacture [K<sub>2</sub>]  
20. Define Corporate Social Responsibility (CSR) and cite few benefits of CSR to company and society [K<sub>2</sub>]

**PART C (6 x 5 = 30 Marks)**

21. Comment on the term ‘ Design for Sustainability’ [K<sub>2</sub>]  
22. Differentiate between energy efficient and longer-lasting product design [K<sub>3</sub>]  
23. Outline the scope for controlling power consumption towards achieving sustainable apparel manufacture [K<sub>4</sub>]  
24. Summarize with examples possibilities for elimination of fabric waste at source in garment industry. [K<sub>4</sub>]  
25. Comment on social issues in apparel industry and explain how certification compliance of OEKO TEX contributes towards eliminating these issues. [K<sub>2</sub>]

26. Appraise the mandatory requirements for a CSR initiative [K<sub>2</sub>]

**PART D (4 x 10 = 40 Marks)**

27. With examples explain the application of CAD and CAM systems in apparel product development and manufacturing process improvement [K<sub>3</sub>]

28. Explain in detail how operational safety and ergonomics contribute towards sustainable apparel manufacture [K<sub>5</sub>]

29. Outline the scope for material and energy waste elimination at source in apparel manufacturing. [K<sub>4</sub>]

30. Give a detailed account on the social issues in Indian apparel industry and measures to overcome these issues. [K<sub>3</sub>]

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