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NPTEL

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Courses » Sustainability through Green Manufacturing Systems: An Applied Approach

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Unit 8 - Week 6

Course outline

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Week 4

- Lecture 11: Life Cycle Assessment Continued
- Lecture 12: Manufacturing System Constituents
- Lecture 13: Basic Modeling Concepts for Factory Simulation
- Lecture 14: Basic Modeling Concepts for Factory Simulation Continued
- Quiz : Assignment 4
- WEEK 4 - FEEDBACK - Sustainability through Green Manufacturing Systems: An Applied Approach
- Solution: Assignment 4

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Week 6

- Lecture 18: Productivity and Sustainability
- Lecture 19: Productivity and Sustainability Continued
- Lecture 20: Green Manufacturing Techniques
- Lecture 21: Green Manufacturing Techniques Continued
- Quiz : Assignment 6
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- WEEK 6 - FEEDBACK - Sustainability through Green Manufacturing Systems: An Applied Approach

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Assignment 6

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2018-10-10, 23:59 IST.1) For a company XYZ, the following details are available for the year 1987 and 1988 **2 points**

| | 1987 | 1988 |
|----------------|---------|-----------|
| Net Sales (\$) | 520,000 | 1,040,000 |
| Costs: (\$) | | |
| Material | 100,000 | 200,000 |
| Labor | 300,000 | 620,000 |
| Other Expenses | 50,000 | 100,000 |
| Depreciation | 10,000 | 20,000 |

What is the change in material productivity from 1987 to 1988?

- 3.21 % improvement
- 3.21 % improvement
- 5 % improvement
- No change

No, the answer is incorrect.
Score: 0

Accepted Answers:
No change

2) According to the data provided in Q-1, what is the change in labor-material productivity from 1987 to 1988? **2 points**

- 2.4 % improvement
- 2.4 % reduction
- 4.8 % improvement
- No change

No, the answer is incorrect.
Score: 0

Accepted Answers:
2.4 % reduction

3) According to the data provided in Q-1, what is the change in total productivity from 1987 to 1988? **2 points**

- 2.1 % improvement
- 2.1 % reduction
- 4.2 % improvement
- No change

No, the answer is incorrect.
Score: 0

Accepted Answers:
2.1 % reduction

4) "Productivity is the ratio of the input provided to a process and the waste generated by the process." **1 point**

The above statement is

- True
- False

No, the answer is incorrect.
Score: 0

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- International competitiveness
- Male-female ratio

No, the answer is incorrect.

Score: 0

Accepted Answers:

Male-female ratio

6) Which of the following is not a type of cutting fluid that is used in machining? 1 point

- Creosote oil
- Straight oil
- Soluble oil
- Synthetic oil

No, the answer is incorrect.

Score: 0

Accepted Answers:

Creosote oil

7) Which of the following is a major advantage of using cryogenic machining? 1 point

- Low cost
- Cost of cutting fluid is completely eliminated
- Easily availability of liquid nitrogen
- All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Cost of cutting fluid is completely eliminated

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