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| TRƯỜNG ĐẠI HỌC SƯ PHẠM KỸ THUẬT  THÀNH PHỐ HỒ CHÍ MINH  **KHOA KINH TẾ**  **BỘ MÔN KẾ TOÁN**  **-------------------------** | **ĐỀ THI CUỐI KỲ HỌC KỲ 1 NĂM HỌC 2023-2024**  **Môn: Cost Accounting**  Mã môn học: COAC331607  Đề số/Mã đề: 1 Đề thi có 2 trang.  Thời gian: 60 phút.  Không được phép sử dụng tài liệu. |

**1. Matching items (3 points):**

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| 1. Backflush costing | It is a budget that shows estimated costs at different production volumes. |
| 2.Nonvalue-added activities | The extra pay If an employee works beyond the regularly scheduled time but is paid at the regular hourly rate |
| 3. Purchase Requisitions. | Management’s operating plans are expressed in quantitative terms, such as units of production and related costs. |
| 4. Safety stock | The agreement stipulates that certain holidays during the year will be paid for by the company, but they are nonworking days for the employees. |
| 5. Direct labor | The amount of cost incurred for the period is dependent upon the level of activity for the period. |
| 6. Overtime pay | The operations include costs but do not add value to the product, such as moving, storing, and inspecting the inventories |
| 7. Work shift | The name for the accounting system used with lean manufacturing. |
| 8. Holiday pay | Mixed costs |
| 9. Dependent variable | Touch labor |
| 10. Budgets | The form used to notify the purchasing agent that additional materials are needed |
| 11. A flexible budget. | A regularly scheduled work period for a designated number of hours. |
| 12. Semivariable costs | The estimated minimum level of inventory needed to protect against stockouts (running out of stock). |

**2. Problem 1 (3 points):**

**Sunlight corporation produces and sells 3 products: A, B & C. And the following data is given:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Product A** | **Product B** | **Product C** |
| **CM/unit** | **$3** | **$2** | **$8** |
| **Sales in units** | **20,000** | **100,000** | **80,000** |
| **Fixed cost** | **$ 225,000** | | |

**Required:**

1. **Calculate the break-even point (units) for the above sales mixed (Details for each product) (1.75 marks)?**
2. **Calculate the net profit for these sales mixed (1.25 marks)?**

**3. Problem 2 (4 points):**

**The special equipment used to manufacture part 4A has no resale value. The total amount of general factory overhead, which is allocated on the basis of direct labor hours, would be unaffected by this decision. The $30 unit product cost is based on 20,000 parts produced each year. An outside supplier has offered to provide the 20,000 parts at a cost of $25 per part.**

**Essex Company manufacture part 4A that is used in one of its products. The unit product cost of this part is: *Direct materials: $9; Direct labor: $5; Variable overhead: $1; Depreciation of special equipment: $3; Supervisor’s salary: $2; General factory overhead: $10; Total cost: $30.* Should the company stop making part 4A and buy it from in outside supplier?**

*Ghi chú: Cán bộ coi thi không được giải thích đề thi.*

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| **Chuẩn đầu ra của học phần (về kiến thức)** | **Nội dung kiểm tra** |
| [CĐR 1]: **Explain the uses of cost accounting information; ethical responsibilities; relationship with financial and management accounting; cost accounting procedure; and job order costing.** | Câu 1, Câu 2, Câu 3 |
| [CĐR 2]: **Explain types of cost classification such as material; labor; and overhead** | Câu 1, Câu 2, Câu 3 |
| [CĐR 3]: **Cost Analysis for Management Decision Making** | Câu 2, Câu 3 |

Ngày tháng năm 2023

**Thông qua bộ môn**

Answer

**1. Matching items (3 points):**

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| --- | --- |
| 1. Backflush costing | The name for the accounting system used with lean manufacturing. |
| 2.Nonvalue-added activities | The operations include costs but do not add value to the product, such as moving, storing, and inspecting the inventories |
| 3. Purchase Requisitions. | The form used to notify the purchasing agent that additional materials are needed |
| 4. Safety stock | The estimated minimum level of inventory needed to  protect against stockouts (running out of stock). |
| 5. Direct labor | Touch labor |
| 6. Overtime pay | The extra pay If an employee works beyond the regularly scheduled time but is paid at the regular hourly rate |
| 7. Work shift | A regularly scheduled work period for a designated number of hours. |
| 8. Holiday pay | The agreement stipulates that certain holidays during the year will be paid for by the company, but they are nonworking days for the employees. |
| 9. Dependent variable | The amount of cost incurred for the period is dependent upon the level of activity for the period. |
| 10. Budgets | Management’s operating plans are expressed in quantitative terms, such as units of production and related costs. |
| 11. A flexible budget. | It is a budget that shows estimated costs at different production volumes. |
| 12. Semivariable costs | Mixed costs |

**2. Problem 1 (3 points):**

**2.1. Weighted-average contribution margin per unit = (3 x 20,000 + 2 x 100,000 + 8 x 80,000)/200,000 = 4,5**

**BEP for sales mixed = FC/ Weighted-average CM per unit = 225,000/4,5 = 50,000 units**

**Product A = (20,000/200,000) x 50,000 = 5,000 units**

**Product B = (100,000/200,000) x 50,000 = 25,000 units**

**Product C = (80,000/200,000) x 50,000 = 20,000 units**

**2.2. Net profit = CM – FC = 20,000 x 3 + 100,000 x 2 + 80,000 x 8) – 225,000 = $ 675,000**

**3. Problem 2 (4 points):**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Cost/unit** | **Cost of 20,000 units** | |
|  |  | **Make** | **Buy** |
| **Outside purchase price** | **$25** |  | **$500,000** |
| ***Direct materials*** | **9** | **180,000** |  |
| ***Direct labor*** | **5** | **100,000** |  |
| ***Variable overhead*** | **1** | **20,000** |  |
| ***Depreciation of special equipment*** | **3** | **0** |  |
| ***Supervisor’s salary*** | **2** | **40,000** |  |
| ***General factory overhead*** | **10** | **0** |  |
| ***Total cost*** | **30** | **340,000 (1.5 m)** | **500,000 (0.5 m)** |

**Financial advantages of making part 4A: $ 160,000 (1m). Given that the total avoidable costs are less than the cost of buying the part, Essex should continue to make the part (1m).**