**OM 305 S23 Test 3 v2 Answers**

**as of (4/27/23)**

Your name**:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Problem 1:** Total Number of Total Arrivals in 12 minutes =\_\_\_\_\_\_

**Problem 2:**

a) How many machines should the manager purchase:\_\_\_\_\_\_\_

b) With the selected# of machines will the break-even point be met? Circle one: Y N

c) If the selected number of machines are purchased, how many output units will be required to break-even ?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Problem 3:** The total cost of the Bill of Material = \_\_\_\_\_\_\_\_\_

**Problem 4:** Time required to produce the 120 unit:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Problem 5:**

a) How many pies must be sold in order to break-even:\_\_\_\_\_\_\_\_\_

b) What would the profit (loss) be if 1,000 are baked and sold:\_\_\_\_\_\_

c) How many pies must be sold to realize a profit of $4,000:\_\_\_\_\_\_\_\_\_

d) If 2,000 pies can be sold, and the profit target is $5,000, what price should be charged per pie:\_\_\_\_\_\_\_\_\_\_

**Problem 6:** Time required to produce the 1st unit =\_\_\_\_\_\_\_\_\_\_\_\_

**Problem 7:** The overall cost of labor:= \_\_\_\_\_\_\_\_\_\_\_\_

**Problem 8:** The unit equivalence cost point =\_\_\_\_\_\_\_\_\_\_\_\_\_