Assignment 4
The due date for submitting this assignment has passed.
Due on 2020-02-06, 23:59 IST.

1. For a solution containing 30% polyester (by weight), what is the meaning of R? (1 point)
   a) Temperature at which solution is re-crystallized.
   b) Amount of water lost during re-crystallization.
   c) Molality of water lost during re-crystallization.
   d) Molal concentration of the solution after re-crystallization.
   e) None of the above.
   
   Answer: e

2. Which of the following is most appropriate? (1 point)
   a) Values of three coexisting constant are unique in a particular model.
   b) Values of three coexisting constant are different for different models.
   c) Values of three coexisting constant are same if three coexisting substance are identical.
   d) Values of three coexisting constant are same if three coexisting substance are distinct.
   e) None of the above.
   
   Answer: a

3. In water-oil system at stage 1 and stage 2 of a distillation, the concentration of water is 1% and 2%.
   a) PV 1 < PV 2
   b) PV 1 > PV 2
   c) PV 1 = PV 2
   d) None of the above.
   e) None of the above.
   
   Answer: a

4. Demand of space particle at an ODM is 1,000 units per annum. The upstream vendor is responsible to supply the same. Whenever order is placed, 1 point ODM incurs a cost of 500 units. The order quantity which is in 500. ODM incurs holding cost of material at 250 units per annum. What should the number of orders in a year in order to minimize the total associated inventory cost? (1 point)
   a) 3
   b) 4
   c) 5
   d) None of the above.
   
   Answer: a

5. Demand of space particle at an ODM is 1,000 units per annum. The upstream vendor is responsible to supply the same. Whenever order is placed, 1 point ODM incurs a cost of 500 units. The order quantity which is in 500. ODM incurs holding cost of material at 250 units per annum. What should be the maximum inventory cost? (1 point)
   a) 1,000
   b) 2,500
   c) 5,000
   d) None of the above.
   
   Answer: b