Assignment 5

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

1. Which one of the following elements is not used for aseptic processing system?
   - A. product handling
   - B. hood tube
   - C. product control
   - D. flow diversion valve
   - No. the answer is incorrect. Score: 0
   - Accepted Answers: All of the above

2. What term the aseptic refers to?
   - A. aseptic sterilizer
   - B. aseptic method
   - C. aseptic utility
   - D. aseptic condition
   - No. the answer is incorrect. Score: 0
   - Accepted Answers: All of the above

3. Which one of the following affects product temperature in the holding tube?
   - A. condenser drip
   - B. draft of cold air
   - C. addition of heat
   - D. all of the above
   - No. the answer is incorrect. Score: 0
   - Accepted Answers: All of the above

4. Which of the following affects product temperature in the holding tube?
   - A. condenser drip
   - B. draft of cold air
   - C. addition of heat
   - D. all of the above
   - No. the answer is incorrect. Score: 0
   - Accepted Answers: All of the above

5. Procurement characteristics considered in designing an aseptic processing system include
   - A. liquid or film particulates
   - B. size of particulates
   - C. product viscosity
   - D. all of the above
   - No. the answer is incorrect. Score: 0
   - Accepted Answers: All of the above

6. The product characteristics determined in designing an aseptic processing system include
   - A. product characteristics
   - B. process characteristics
   - C. environmental characteristics
   - D. all of the above
   - No. the answer is incorrect. Score: 0
   - Accepted Answers: All of the above

7. In order of values of certain enzymes at 10°C is 0.64 min and 7.6°C is 10°C. Calculate at 17°C (in sec).
   - A. 0.64
   - B. 0.66
   - C. 0.68
   - D. 0.70
   - No. the answer is incorrect. Score: 0
   - Accepted Answers: All of the above

8. After sterilization by heat or chemicals, the aseptic filling environment is maintained using
   - A. filtered air or inert gas
   - B. inert gas
   - C. inert gas
   - D. inert gas
   - No. the answer is incorrect. Score: 0
   - Accepted Answers: All of the above

9. A processing plant is designed to sterilize the liquid food product for aseptic packaging. Table below, where the change in case temperatures of a product during heat and cooling cycle is compared against the reference temperature of 82°C with corresponding Z-value of 9°C. It is assumed that each process temperature is held for 1 minute. Calculate the total lethality, Σφ, required for this process.

<table>
<thead>
<tr>
<th>Time (min)</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
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<th>12</th>
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<tbody>
<tr>
<td>Temperature (°C)</td>
<td>80</td>
<td>79</td>
<td>78</td>
<td>77</td>
<td>76</td>
<td>75</td>
<td>74</td>
<td>73</td>
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</tr>
</tbody>
</table>

   - A. 5.4
   - B. 9.2
   - C. 4.1
   - D. 2.3
   - No. the answer is incorrect. Score: 0
   - Accepted Answers: All of the above

10. A processing plant is designed to sterilize the liquid food product for aseptic packaging. Table below, where the change in case temperatures of a product during heat and cooling cycle is compared against the reference temperature of 82°C with corresponding Z-value of 9°C. It is assumed that each process temperature is held for 1 minute. Calculate the total lethality, Σφ, required for this process.

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2 points

2 points