

**B.Tech Final Year (Food Technology) Credit Examination 2020**  
**Process Equipment design and drawing**

**Set III**

**Time: One Hour**

**Total Marks: 50**

**Instructions: 1) Attempt any twenty five questions.**  
**2) Each question carriestwo marks.**

Q.No.1	<p>When one of the fluids is highly corrosive and has fouling tendency, it should_____.</p> <p>(A) Preferably flow inside the tube for its easier internal cleaning (B) Flow at a very slow velocity (C) Preferably flow outside the tube (D) Flow outside the tube, when the flow the counter current and inside the tube when the flow is co-current</p>	02
Q.No.2	<p>What losses are taking place in the storage of volatile liquids</p> <p>(A) Evaporation                  (B) Filling (C) Breathing                  (D) All of these</p>	02
Q.No.3	<p>When radio graphic tests are conducted for pressure vessels, the joint efficiency is</p> <p>(A) 0.70                  (B) 0.55                  (C) 0.85                  (D) 0.25</p>	02
Q.No.4	<p>Baffles are provided in agitated vessels to</p> <p>(A) to prevent vortex formation (B) to prevent fouling (C) agitate (D) aeration</p>	02
Q.No.5	<p>In a shell and tube heat exchanger, the shortest centre to centre distance between the adjacent tubes is</p> <p>(A) Called tube pitch                  (B) Called tube clearance (C) Always less than the diameter of the tube (D) None of these</p>	02
Q.No.6	<p>Corrosive fluids are passed through ____ side of a shell and tube heat exchanger</p> <p>(A) shell                  (B) tube                  (C) both                  (D) none</p>	02

Q.No.7	<p>25% cut segmental baffle means that baffle</p> <p>(A) Height is 75% of the I.D. of the shell  (B) Height is 25% of the I.D. of the shell  (C) spacing is 75% of its height  (D) width is 25% height of its height</p>	02
Q.No.8	<p>Reinforced material can be placed</p> <p>(A) On both sides of the vessel wall  (B) On the inside or outside surface of the vessel wall  (C) Either A or B  (D) Neither A nor B</p>	02
Q.No.9	<p>To make a leak tight joint between two surfaces ____ are used.</p> <p>(A) Flanges  (B) Reinforcement  (C) Gaskets  (D) Bolts</p>	02
Q.No.10	<p>In case of a 'thin' pressure vessel, the ratio of its diameter to wall thickness is ____.</p> <p>(A) &lt;10                      (B) &gt;10  (C) &gt;20                      (D) 30</p>	02

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**B.Tech Final Year (Branch Name) Credit Examination 2020**

**Subject Name**

**Answer Key Set III**

**Time: One Hour**

**Total Marks: 50**

1	Answer: <b>Option A</b>	
2	Answer: <b>Option D</b>	
3	Answer: <b>Option C</b>	
4	Answer: <b>Option A</b>	
5	Answer: <b>Option A</b>	
6	Answer: <b>Option B</b>	
7	Answer: <b>Option A</b>	
8	Answer: <b>Option C</b>	
9	Answer: <b>Option C</b>	
10	Answer: <b>Option B</b>	