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40 TOP Process Equipment and Plant Design Online Test – Multiple Choice Questions and Answers

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Congratulations – you have completed **Process Equipment and Plant Design Online Test Set**.

You scored **1** points out of **10** points total.

Your answers are shown below:

1. A minimum clearance of about _____ mm is maintained between the distillation column wall and the bubble cap

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- **19**
- 38
- 76
- 96

2. In a pressure vessel containing multiple openings of various dimensions at different parts, stress concentration at the edges of the opening is maximum which becomes negligibly small beyond the area covered by _____ times the hole diameter

- 2
- **5**
- 10
- 20

3. Tubes are fixed to the tube sheet (a thick circular metallic plate) by the method of tube rolling and brazing (non-removable) or ferrule connection (removable). Thickness of the tube, sheet is normally _____ the outside diameter of the tube but in no case it should be less than 22 mm (7/8")

- three fourth
- equal to
- **1.5 times**
- half

4. A shell may be termed as thin if its thickness to diameter ratio is less than 0.1. The factor which can be neglected in the calculation of membrane stresses is

- bending
 - elongation
 - **deformation**
 - shear
-

5. Wind load consideration in the design of a support can be neglected, when the vessel is

- tall but empty
- tall (say 30 metres), but is full of liquid
- **short (< 2 m) and housed indoor**
- none of these

6. The distance between the centre of a rivet hole to the nearest edge of the plate is called

- pitch
- **back pitch**
- margin
- none of these

7. Frame thickness in the plate and frame filter press is normally in the range of _____ inches

- 1 to 5
- **1 to 12**
- 0.25 to 8
- 0.25 to 4

8. Which of the following efficiencies can be greater than 100% ?

- Murphree plate efficiency
- Point efficiency
- **Overall plate efficiency**
- None of these

9. Cylindrical shell thickness of rotary drier is generally _____ mm

- 2-3
- 6-8

- **12-15**
- 18-22

10. Pick out the wrong statement

- The liquid head in the downcomer should not be greater than one half the plate spacing to avoid flooding
- **The discharge end of the downcomer must project far enough into the tray liquid so that no gas bubbles can enter the open end and by pass the bubble caps**
- If sufficient residence time (around 8 seconds) is not provided to the downcoming liquid in the downcomer, it may entrain some vapour
- none of these

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