

Principles Of Downstream Techniques In Bioprocess - - Unit 4 - Week 2

- the cake is compressible
- the liquid is very viscous

No, the answer is incorrect. Score: 0

Accepted Answers: filter medium offers resistance

5) It takes 60 minutes to filter a slurry of 1500 ltr using a filter of 1.5 m^2 area. Ho long will it take to filter 20 m^3 of same slurry with a filter of area 20 m^2 . Assume incompressible cake, resistance offered by cloth is zero and same pressure

No, the answer is incorrect. Score: 0 Accepted Answers:

(Type: Numeric) 60



6) If I want to use the same centrifuge to remove solids with one half the diameter how much the through put will decrease by in %

No, the answer is incorrect. Score: 0 Accepted Answers:

(Type: Numeric) 25

1 point

7) In a settling tank, I settle solids with specific gravity of 2 with water as the liquid. If I use now solids of specific gravity of 1.5, what will be the decrease in settling time in %

No, the answer is incorrect. Score: 0

Accepted Answers: (Type: Numeric) 50

1 point

8) What is the fraction extracted in an extractor if E = 3. We are adding fresh solvent

No, the answer is incorrect. Score: 0

Accepted Answers: (Type: Numeric) 0.75

2 points

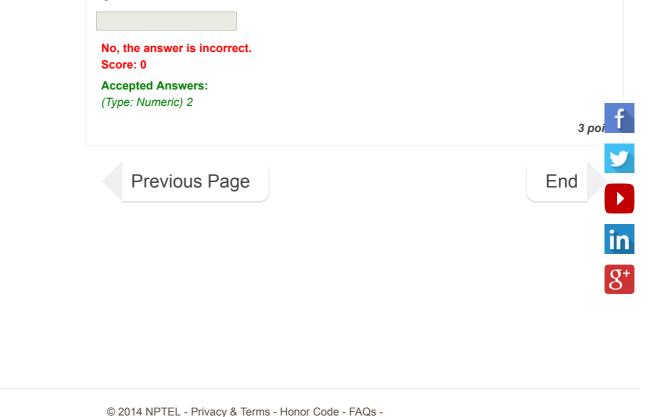
9) What will be the fraction extracted in problem 8, If the amount of solvent used is reduced by half but charged in two stages ------

No, the answer is incorrect. Score: 0 Accepted Answers: (Type: Range) 0.83,0.85

3 points

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10, How many counter current extraction stages (give answer in whole number) are required if we want to recover 80% of a solute. E=2.1 ------





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