

## NPTEL

reviewer4@nptel.iitm.ac.in ▼

## Courses » Principles Of Downstream Techniques In Bioprocess

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Announcements

Course

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## Unit 6 - Week 4



Register for Certification exam

# Course outline

How to access the portal

Week 0

Week 1 \_Introduction

Week 2

Week 3

#### Week 4

- Product stabilization,
   Drying,
   Lyophilisation
- Precipitation and crystallization
- Electrophoresis/ SDS PAGE
- Chromatography
- Quiz : Assignment 4
- Week 4 feedback form

Week 5

**Downloads** 

Interactive Session

TEXT TRANSCRIPTS

# **Assignment 4**

The due date for submitting this assignment has passed. Due on 2019-02-27, 23:59 IS As per our records you have not submitted this assignment.

g+

1 point

1) salting in is because of

- pH change
- Change in dielectric constant
- Ionic strength change
- Change in water availability

No, the answer is incorrect.

Score: 0

#### **Accepted Answers:**

Ionic strength change

2) In salting out low molecular weight protein precipitates

1 point

- before high molecular weight proteins
- after high molecular weight proteins
- both precipitate at the same time
- molecular weight has no effect

No, the answer is incorrect.

Score: 0

#### **Accepted Answers:**

after high molecular weight proteins

3) If the rate of increase in crystal size is 1.35 mm/hr, How long will it take for the crystal size to increase from 4 mm to 7.5 mm ------

No, the answer is incorrect.

## **Accepted Answers:**

Score: 0

(Type: Range) 2.55,2.65

1 point

4) Crystallization is carried out in a stirred tank and the rate of increase in crystal size is 2 mm/hr. How long the crystallizer has to be run to get a dominant crystal size is 50 mm ------

No, the answer is incorrect.

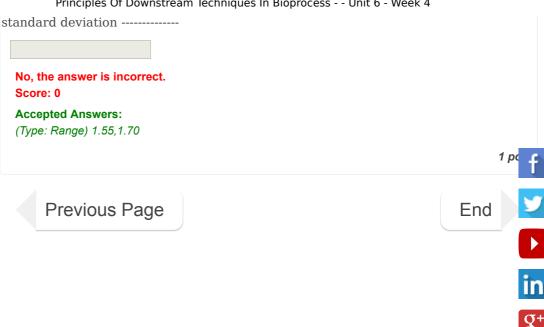
Score: 0

**Accepted Answers:** 

Principles Of Dow	nstream Techniques In Bioprocess Unit 6 - Week	4
(Type: Range) 8.1,8.5		
		1 point
5) Which drying is not	based on conduction	1 point
• tray		
band		
o belt		_
drum		1
No, the answer is incorre Score: 0	ect.	
Accepted Answers: tray		
6)		
		i
No, the answer is incorre	ect.	8
Accepted Answers:		
(Type: Numeric) 1.5		1 noin
		1 point
	ange in rate of heat transfer (in %) due to coming is reduced by one fourth and area increased	
No, the answer is incorre Score: 0	ect.	
Accepted Answers: (Type: Numeric) 0		
(Type: Numeric) o		4 main
		1 point
and 30 °C respectively. transfer coefficient is gi	der by convection, The air an powder temper. The exposed area for heat transfer is 10 m <sup>2</sup> . iven by the relation U= 0.001 sqrt(v), where	The overall heat v is the velocity
of air = 20 cm/sec. Unit to the solids from air in	es of U are cals/cm <sup>2</sup> °C sec. Calculate the rate kcals/sec	e of heat transfer
No, the answer is incorre	ect.	
Score: 0		
Accepted Answers: (Type: Range) 13.3,13.5		
		1 point
	rel at velocity of 2 and 3 cm/min during electrotein B is 20KDa what is the molecular weigh	_
No, the answer is incorre	』 ect.	
Score: 0		
Accepted Answers: (Type: Numeric) 30		
(Type. Numenc) 30		
		1 point

 $10\mbox{The}$  retention time of a solute is  $10\mbox{ min}$  and the maximum concentration of the peak is 0.1 mM. If 50% of this concentration is reached in 8 min, determine the

 $https://online courses-archive.nptel.ac.in/noc19\_bt04/unit?unit=28\&assessment=53$ 



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