Assignment 4

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

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

- 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:

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.**
Score: 0
Accepted Answers:
(Type: Range) 2.55, 2.65

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:
5) Which drying is not based on conduction

- tray
- band
- belt
- drum

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

6)

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

7) What will be the change in rate of heat transfer (in %) due to conduction if the temperature difference is reduced by one fourth and area increased by a factor of four

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

8) Air is heating a powder by convection. The air and powder temperatures are 60 and 30 °C respectively. The exposed area for heat transfer is 10 m². The overall heat transfer coefficient is given by the relation \( U = 0.001 \sqrt{v} \), where \( v \) is the velocity of air = 20 cm/sec. Units of \( U \) are cals/cm² °C sec. Calculate the rate of heat transfer to the solids from air in kocal/sec

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

9) Protein A and B travel at velocity of 2 and 3 cm/min during electrophoresis. If molecular weight of protein B is 20KDa what is the molecular weight of protein A

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

10) The retention time of a solute is 10 min and the maximum concentration of the peak is 0.1 mM. If 50% of this concentration is reached in 8 min, determine the
standard deviation ----------------

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 1.55, 1.70