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NPTEL

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Courses » Introduction to Chemical Thermodynamics and Kinetics

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## Unit 10 - Week 8

Register for  
Certification exam

### Course outline

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the portal

Week 0

Week 1

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Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Chemical  
Equilibrium -  
part 1

Chemical  
Equilibrium -  
part 2

Chemical  
equilibrium -  
Part 2B

Chemical  
equilibrium\_Part  
2C

## Assignment 8

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-03-27, 23:59 IST.**

1) 1 point

- $6.68 \times 10^{-3}$   
  $6668 \times 10^{-3}$   
  $668 \times 10^{-3}$   
  $8 \times 10^{-5}$

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

$6.68 \times 10^{-3}$

2) 1 point

- $10^{-3}$   
 1.6  
 0  
 2.1

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

1.6

3) 1 point

- Not feasible,  $P(\text{N}_2\text{O}_4) = 7.105 \text{ atm}$ ,  $P(\text{N}_2\text{O}_4) > 7.105 \text{ atm}$   
 Feasible,  $P(\text{N}_2\text{O}_4) = 7.105 \text{ atm}$ ,  $P(\text{N}_2\text{O}_4) < 7.105 \text{ atm}$   
 Not feasible,  $P(\text{N}_2\text{O}_4) = 7.105 \text{ atm}$ ,  $P(\text{N}_2\text{O}_4) < 7.105 \text{ atm}$

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Equilibrium - part 5	ce De
<input type="radio"/> Lecture 08 notes	
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<b>Week 9</b>	
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<b>Week 12</b>	

- 1500  
 15.863  
 20.863  
 100

No, the answer is incorrect.

Score: 0

Accepted Answers:

15.863

5)

- 50.128 kcal mol<sup>-1</sup>, 2.6 X 10<sup>-5</sup>  
 25.128 kcal mol<sup>-1</sup>, 2.6 X 10<sup>-5</sup>  
 25.128 kcal mol<sup>-1</sup>, 2.6  
 33.128 kcal mol<sup>-1</sup>, 2.6 X 10<sup>-5</sup>

No, the answer is incorrect.

Score: 0

Accepted Answers:

25.128 kcal mol<sup>-1</sup>, 2.6 X 10<sup>-5</sup>

6)

- Increase by 15.44 %  
 Decrease by 7.44%  
 Decrease by 2.44%  
 Increase by 10.44%

No, the answer is incorrect.

Score: 0

Accepted Answers:

Decrease by 7.44%

7)

- 2.45  
 1.35  
 4.25  
 8.50

No, the answer is incorrect.

Score: 0

Accepted Answers:

1.35

8)

- 1.85 X 10<sup>-7</sup> and 7.85 x 10<sup>3</sup>  
 1.85 X 10<sup>7</sup> and 7.85 x 10<sup>30</sup>  
 1.85 X 10<sup>7</sup> and 7.85 x 10<sup>20</sup>  
 1.85 X 10<sup>7</sup> and 7.85 x 10<sup>5</sup>

No, the answer is incorrect.

Score: 0

Accepted Answers:



1 point



1 point

1 point

1 point

$1.85 \times 10^{-7}$  and  $7.85 \times 10^3$

9)

1 point

- 77.77, No change
- $7.772 \times 10^3$ , No change
- $10^{30}$ , Yes
- 7.77, No change

No, the answer is incorrect.

Score: 0

Accepted Answers:

$7.772 \times 10^3$ , No change

10)

1 point

- 6.159 k cal
- 60 k cal
- 690 k cal
- 1000 k cal

No, the answer is incorrect.

Score: 0

Accepted Answers:

-6.159 k cal

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